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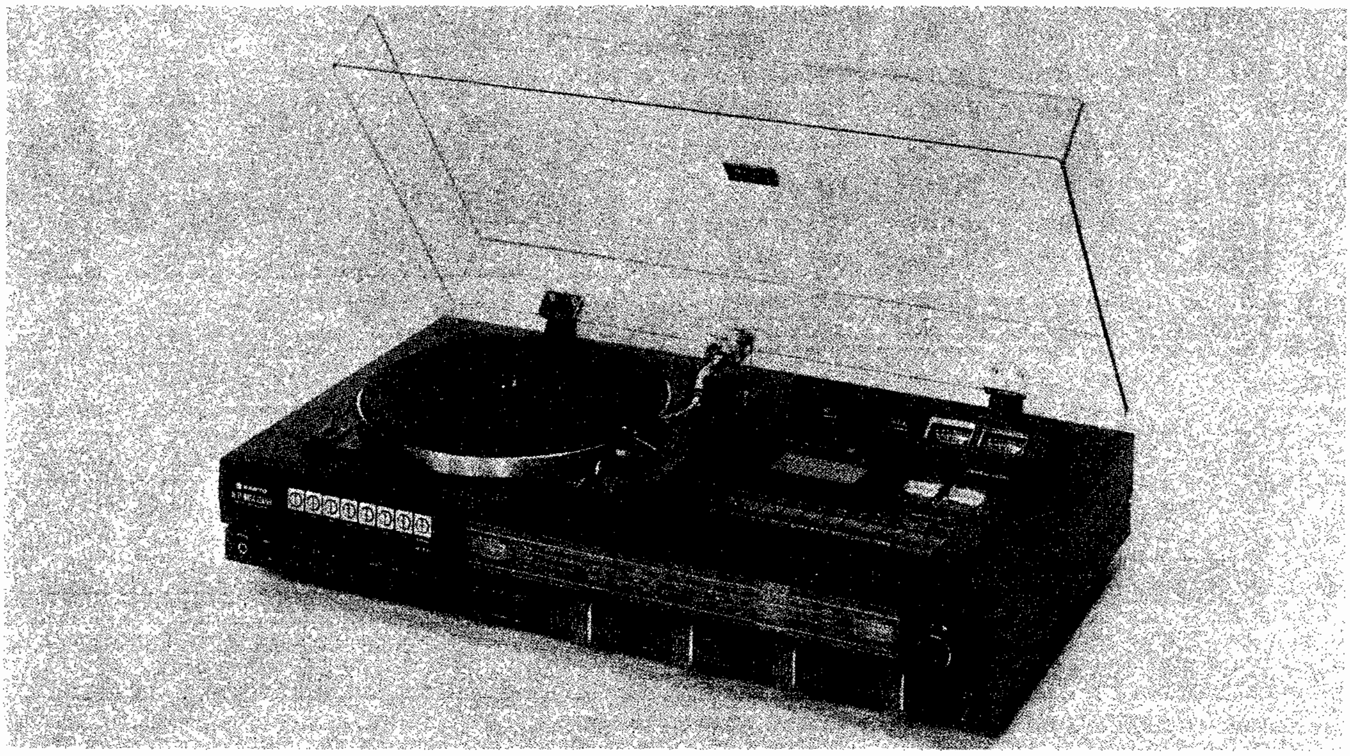
SERVICE MANUAL

SANYO

STEREO MUSIC SYSTEM

GXT-4580UM



SPECIFICATIONS

(AM TUNER SECTION)	
Frequency range	LW150~350KHz MW520~1605KHz SW 6~ 18MHz
Usable sensitivity (IHF)	LW, MW 1000μV/m
Selectivity (IHF)	Better than 30 dB
Signal to noise ratio	Better than 40 dB
(FM TUNER SECTION)	
Frequency range	87.5~108MHz
30dB S/N sensitivity	3μV
Limiting sensitivity	2μV
Selectivity (IHF)	Better than 40 dB
Signal to noise ratio	Better than 47 dB (98MHz)
Harmonic distortion	Mono Less than 2% (100%mod.) Stereo Less than 2% (100%mod.)
Stereo separation	Better than 30 dB at 1000Hz
Antenna impedance	300 ohm Balanced type
(AUDIO AMPLIFIER SECTION)	
Continuous power output (RMS) 1KHz, both channels driven at Impedance 4 ohm	25W+25W
Harmonic distortion	Less than 1% at rated power output
Frequency response at AUX input	20~20KHz±1.5dB
Bass control	±10dB 100Hz
Treble control	±10dB 10KHz
at volume cntrol position set to −30dB	+8dB 100Hz +4dB 10KHz
Signal to noise ratio	PHONO Better than 35 dB AUX Better than 50 dB
PHONO equalization curve	RIAA standard
(TURNTABLE SECTION)	
Turntable speeds	33-1/3 & 45 r.p.m.
Wow and flutter	±0.1%RMS.
Max. usable cartridge weight	11gr.
Frequency response	30~16000Hz
Channel separation	25dB
Stylus	R-S07163 (Diamond)
(CASSETTE TAPE SECTION)	
Tape speed	1-7/8 IPS. ±1%
Fast forward time	100sec. (C-60 cassette)
Rewind time	100sec. (C-60 cassette)
Wow & flutter	0.2%RMS.
Closstalk	Better than 60dB (track to track)
Stereo separation	40dB (at 1000Hz)
Signal to noise ratio	Better than 55dB Dorby NR on
Frequency response	30~14000Hz
(GENERAL)	
Power source	110, 120, 220V, 50/60Hz
Power consumption	165W at rated output

NOTE: Specifications are subject to change without notice.

WM-2222

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ALIGNMENT PROCEDURES

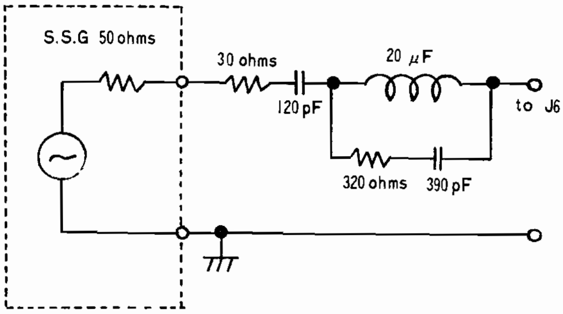
AM IF and RF Alignment

STEP	MODE	SIGNAL INPUT	FREQUENCY OF SSG	DIAL SETTING OF RADIO	COMPONENTS TO BE ADJUSTED FOR MAX.
1	MW	Thru loop antenna	455KHz	Lower end	CF-3, T-8
2	LW		145KHz	Lower end	OSC coil T-6
3	LW		355KHz	Upper end	OSC trimmer CT-8
4	LW		150KHz	150KHz	Ant. coil L-901
5	LW		350KHz	350KHz	Ant. trimmer CT-6
6	MW		505KHz	Lower end	OSC coil T-5
7	MW		1650KHz	Upper end	OSC trimmer CT-7
8	MW		600KHz	600KHz	Ant. coil L-L901
9	MW		1400KHz	1400KHz	Ant. trimmer CT-5
10	SW	Thru Dummy antenna (Fig. 1)	5. 8MHz	Lower end	OSC coil L-T-7
11	SW		18. 5MHz	Upper end	OSC trimmer CT-9
12	SW		6. 0MHz	6. 0MHz	Ant. coil T-4
13	SW		18. 0MHz	18. 0MHz	Ant. trimmer CT-4

Repeat STEP 4 and 5
Repeat STEP 8 and 9
Repeat STEP 10 and 11

SW Dummy Ant.

Fig. 1



AM Signal Meter Alignment

Input Signal	Component to be Adjusted	Adjustment
S. S. G. 100dB μV Thru Loop Antenna. 1000KHz	SVR 6	To Indicate "4"

Power Amplifier Idling Current Adjustment

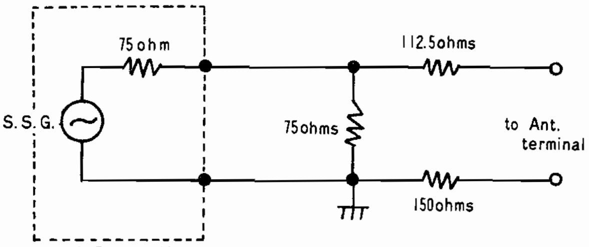
Disconnect the fuse F4 (F5) and connect ampere meter in place of the fuse.
Adjust SVR211 (SVR311) to 35 mA.

UKW (FM) RF ALIGNMENT

Step	Signal Input	Frequency of S. S. G.	Dial Setting	Component to be Adjusted for Max. Output
1	Thru Dummy Antenna Fig. 2	87. 5MHz	Lower-End	Osc. Coil L-2
2		109 MHz	Upper-End	Osc. Trim. CT-3
3		90 MHz	90MHz	RF. Coil, T-1, T-2
4		106 MHz	106MHz	RF. Trim. CT-1, CT-2

Repeat Step 3 and 4

Fig. 2



(0dB = 1 μV 75ohms Load)

UKW (FM) IF ALIGNMENT

STEP	Alignment	Test Equipment	Adjustment
1	Response	Sweep Generator :TP-2 *	T-3
		Osciloscope :TP-4	Max.
2	"S" Curve	Sweep Generator :TP-2	L-5
		Osciloscope :TP-3	Symmetrical "S"

* Through 1Kohms

UKW (FM) TUNING VOLTAGE ALIGNMENT

STEP	Alignment	Dial Setting	Test Point	
			Equipment	Adjustment
1	V-High	High-End (Manual)	TP-1	SVR-103 28. 0 V
2	V-Low	Low-End (Preset)	TP-1	SVR-7 2. 80 V
3		Low-End (Manual)	TP-1	SVR-5 2. 80 V

ALIGNMENT PROCEDURES

UKW (FM) Signal Meter Alignment

Input Signal	Component to be Adjusted	Adjustment
S.S.G. 80dB μV, 98MHz, Thru Dummy Antenna (Fig. 2)	SVR-3	To Indicate "5"

UKW (FM) Frequency Meter Alignment

STEP	Alignment	Tuning Frequency	Component to be Adjusted	Indication
1	Low	88MHz	SVR-1	88
2	High	108MHz	SVR-2	108

Repeat Step 1 and 2

UKW (FM) Muting Alignment

Input Signal	Component to be Adjusted	Adjustment
S.S.G. 30dB μV, 98MHz, Thru Dummy Antenna (Fig. 2)	SVR-4	Nute On

UKW (FM) Stereo Separation

Step	Subject	Equipment	Test Point	Adjustment
1	P.L.L.	Counter	TP-5	19KHz
2	Separation	FM Stereo S.G.	Output	Max. Separation

PHONO output level alignment

Input Signal	Component to be Adjusted	Test Point	Adjustment
50mm/sec (cutting)	SVR291 (391)	line output terminal	300mV

Cassette Alignment

(a) Output level alignment

Input Signal	Component to be Adjusted	Test Point	Adjustment
200nwb/m (Dolby level Calibration)	SVR401 (501)	TP402 (502)	580mV

(b) Bias current alignment

Setting	Test Point	Component to be Adjusted	Adjustment
Rec mode & Fe_2O_3	TP401 (501)	① L401 (501)	Maximum
		② L401 (501) (Beat cut SW to the other position)	equal with Bias voltage in any position ① or ②
		③ SVR551 (552)	4.5mV

(c) Level meter alignment

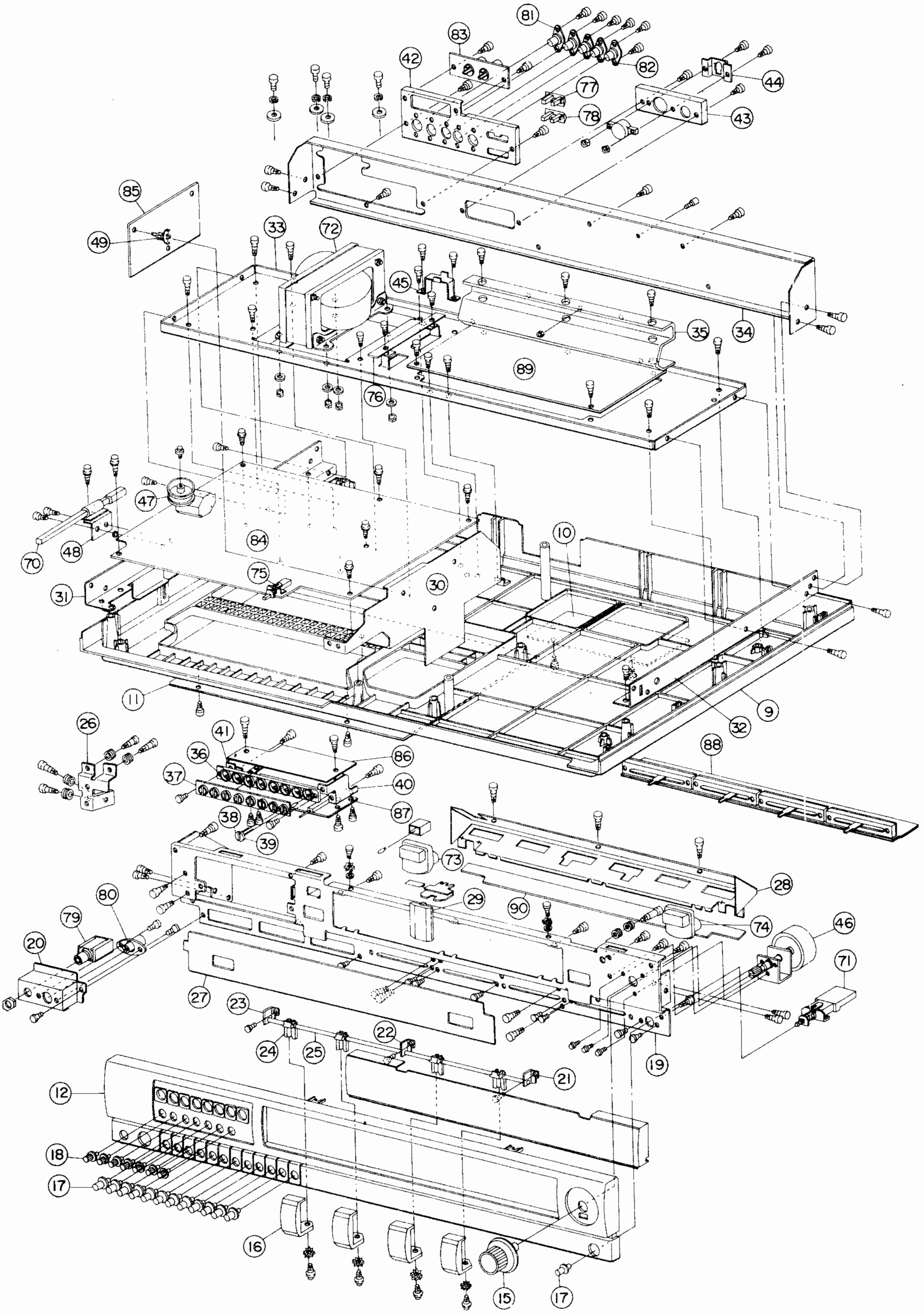
Input Signal	Setting Rec volume	Component to be adjusted	Adjustment
316mV (AUX)	580mV at TP402 (502)	SVR403 (503)	+3dB (DOLBY LEVEL) at level meter

(d) R/PB level alignment

① Record	② Play back	③ Repeat Step 1, 2, until playback output reading at TP402 (502) is 580mV by adjusting SVR402 (502)
Input Signal : 316 mV (AUX) Setting Rec Volume : 580mV at TP402 (502)	Measure the output level at TP402 (502)	

NOTE ( ) bracket ········· Right channel
non non bracket ········· left channel

EXPLODED VIEW (CABINET & CHASSIS)



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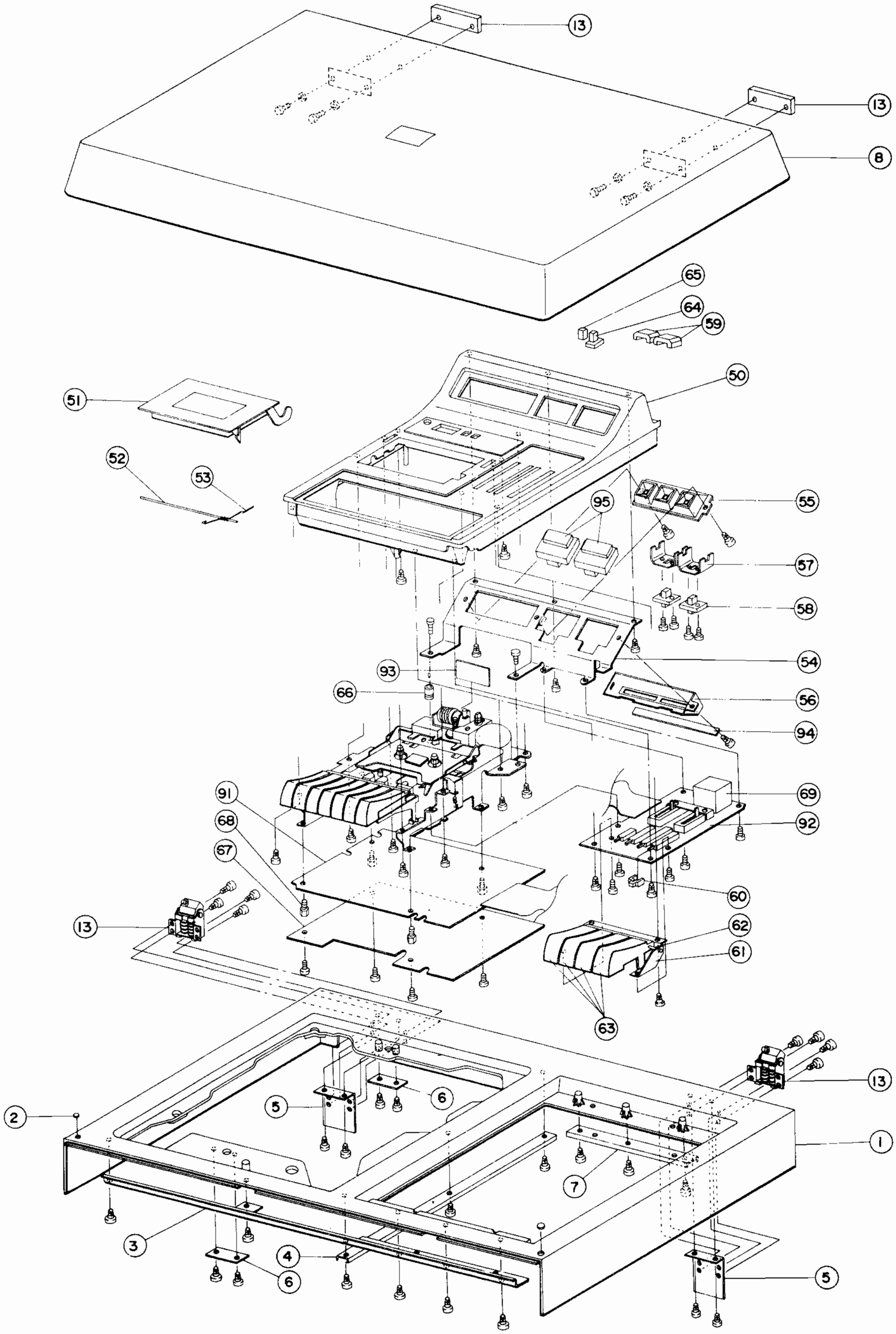
EXPLODED VIEW (CABINET & CHASSIS)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PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
PACKAGE PARTS				
		R-4772431	Instruction book	1
		R-4073723	Individual carton	1
		R-4171186	Styro-foam cushion, Unit bottom	1
		R-4171187	Styro-foam cushion, Dust cover left	1
		R-4171188	Styro-foam cushion, Dust cover right	1
		R-4772432	Caution tag, Power & pulley	1
		R-357359	Polyethylene bag, Unit	1
			Polyethylene bag, 320x360, Turn table	1
		R-357361	Sheet cover, Dust cover	1
		R-357360	Polyethylene bag, Dust cover	1
			Polyethylene bag, 240x320, Instruction book	1
			Polyethylene bag, 100x240, AC cord	1
		R-357362	Cover, Front panel	1
			Polyethylene bag, 50x50, Weight	1
			Polyethylene bag, 100x240, Antenna lead	1
			Polyethylene bag, 60x145x2t, Counter	2
			weight & Head sheel	
			Polyethylene bag, 50x50, Pulley	1
ACCESSORY PARTS				
		R-S871212	Antenna lead assembly, AM	1
		R-S07176	Cassette tape	1
CABINET APPEARANCE PARTS				
1		R-A72397	Cabinet assembly	1
2		R-447977	Cushion, Dust cover	2
3		R-1270496	Metal bracket, Cabinet front	1
			Tap. Screw, Pan Hd., 3x10	5
4		R-1270497	Metal bracket, Cabinet center	1
			Tap. Screw, Pan Hd., 3x10	3
5		R-1270493	Metal bracket, Hinge	2
			Tap. Screw, Pan Hd., 3x10	4
6		R-118122	Metal bracket, Player	2
			Tap. Screw, Pan Hd., 3x10	4
7		R-1270499	Metal bracket, Cassette panel rear	1
			Tap. Screw, Pan Hd., 3x10	3
8		R-A72398	Dust cover assembly	1
9		R-A72399	Bottom cover assembly	1
10		R-1270529	Ventulation, Amp. P. C. B.	1
			Tap. Screw, Pan Hd., 3x8	2
11		R-1270530	Ventulation, Tuner P. C. B.	1
			Tap. Screw, Pan Hd., 3x8	2
12		R-A72400	Front panel assembly	1
			Tap. Screw, Oval Hd., 3x10	8
			Tap. Screw, Pan Hd., 3x8	2
			Washer, External Tooth Lock, 3	2
		R-4772139	Caution label, Player	2
13		R-S871166	Hinge assembly	2
			Tap. Screw, Pan Hd. with Washer "A", 4x14	4
			Nut, Hex Hd., 4	4
			Tap. Screw, Pan Hd., 3x8	8
		R-357323	Cover	2
15		R-A72401	Knob assembly, Tuning	1
16		R-387675	Knob, Vol./Balance/Bass/Treble	4
			Tap. Screw, Pan Hd. with Washer, 3x10	4
			Washer, External Tooth Lock, 3	4
17		R-3971463	Knob, Function/Power	13
18		R-3971464	Knob, Preset	7

Key No.	Ref. No.	Part No.	Description	Q'ty
		R-4772211	Label, Dolby	1
			Tap. Screw, Oval Hd., 4x16	8
			Screw, Pan Hd., 4x10	2
			Washer, Flat, 4x16x1t	2
			Cabinet — Bottom cover	
			Screw, Pan Hd., 4x20	2
			Washer, Flat, 4x10x0. 8t	2
			Cabinet-Player	
CHASSIS MECHANICAL PARTS				
19		R-S871169	Chassis assembly, Front	1
			Tap. Screw, Pan Hd., 3x8	1
			Tap. Screw, Oval Hd., 3x8	4
20		R-1171005	Metal bracket, Mic/Headphone	1
			Tap. Screw, Oval Hd., 3x8	1
			Screw, Flat Hd., 3x6	1
21		R-1270504	Metal bracket, VR shaft left	1
22		R-1270505	Metal bracket, VR shaft center	1
23		R-1270506	Metal bracket, VR shaft right	1
24		R-3971473	Fix plastic board, Slide VR	4
25		R-157803	Shaft, Slide VR	1
26		R-1270507	Metal bracket, Pulley shaft	1
			Tap. Screw, Pan Hd. with Washer "A", 3x4	2
27		R-387678	Dial scale	1
			Tap. Screw, Pan Hd. with Washer, 3x8	1
28		R-1270532	Reflection plate, Dial	1
			Tap. Screw, Pan Hd., 3x6	3
29		R-A72402	Pointer assembly	1
30		R-1270508	Metal bracket, EQ P. C. B.	1
			Tap. Screw, Pan Hd., 3x8	2
			Tap. Screw, Oval Hd., 3x8	2
31		R-1270509	Metal bracket, Left side	1
			Tap. Screw, Oval Hd., 3x8	2
32		R-1270510	Metal bracket, Right side	1
			Tap. Screw, Oval Hd., 3x8	2
33		R-S871170	Chassis assembly, Center	1
			Tap. Screw, Oval Hd., 3x12	9
			Tap. Screw, Pan Hd., 4x10	4
34		R-277419	Chassis, Rear	1
			Tap. Screw, Pan Hd., 3x8	7
35		R-277420	Heat sink	1
			Tap. Screw, Pan Hd., 3x8	3
			Tap. Screw, Pan Hd. with Washer, 3x8	3
36		R-3971474	Holder, Touch sencer	1
			Screw, Flat Hd., 3x6	2
37		R-387680	Cover, Touch sencer	1
38		R-3971460	Touch sencer, Left side	8
39		R-3971461	Touch sencer, Right side	8
40		R-1270513	Metal bracket, Right side	1
			Touch/Preset P. C. B.	
41			Tap. Screw, Oval Hd., 3x6	1
		R-1270514	Metal bracket, Left side	1
			Touch/Preset P. C. B.	
			Tap. Screw, Oval Hd., 3x6	1
		R-1270515	Metal bracket, Preset P. C. B. center	1
			Screw, Flat Hd., 3x6	2
42		R-1270534	Metal bracket, Line in/out terminal	1
			Tap. Screw, Pan Hd., 3x8	2
		R-4170360	Soft tape, F' S meter	4
43		R-1270535	Metal bracket, AC cord/Power select switch	1

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref.No.	Part No.	Description	Q'ty
			Tap. Screw, Pan Hd., 3x8	2
		R-3970593	Lamp holder, Stereo	1
44		R-1170738	Cover, Power select switch	1
		R-447817	Bushing, AC cord	1
45		R-1270090	Metal bracket, AC cord	1
			Tap. Screw, Pan Hd., 3x8	2
		R-357099	Fixer, AC cord	1
			Tap. Screw, Pan Hd., 3x12	1
46		R-S871308	Flywheel, Tuning	1
			Tap. Screw, Pan Hd. with Washer "A", 3x6	3
		R-147054-1	Pulley shaft, 4ϕx17	4
		R-147054-2	Pulley shaft, 4ϕx13.5	1
		R-325017	Pulley, 11ϕ	5
		R-245215	Pulley, 14ϕ	1
		R-157189	Coil spring, Drum	2
47		R-3970582	Drum, VC	1
			Screw, Pan Hd. with Washer, 2.6x6	1
			Dial cord stringth, 0.5ϕx2030	1
48		R-127355	Metal bracket, Antenna coil	1
			Tap. Screw, Pan Hd., 3x8	2
			Washer, Flat, 3.3x10x1t	1
		R-257169	Earth spring, Tuner/Amp. P.C.B.	2
49		R-377060	Nylon lutch, EQ P.C.B. mtg.	3
		R-377064	Wire clamper	3
		R-377065	Wire clamper	5
		R-1270706	Shield case, Tuner P.C.B.	1
		R-1270705	Shield plate, Tuner P.C.B.	1
		R-357323	Hole plug	2
			Screw, Flat Hd., 3x6	8
			Slide VR-chassis front	
			Screw, Flat Hd., 3x6	1
			Function switch-chassis front	
			Tap. Screw, Pan Hd. with Washer, 3x8	2
			Amp. P.C.B.-Chassis	
			Screw, Pan Hd., 3x8	5
			Tap. Screw, Pan Hd. with Washer, 3x8	7
			Tuner P.C.B.-Bottom cover	
			Tap. Screw, Oval Hd., 3x6	4
			Preset P.C.B.-Metal bracket	
			Tap. Screw, Oval Hd., 3x6	2
			Touch P.C.B.-Metal bracket	
			Tap. Screw, Pan Hd., 3x8	2
			Cord clip mtg.	
50		R-A72403	Panel assembly, Cassette	1
51		R-A72404	Cassette lid assembly	1
52		R-157797	Shaft, Cassette lid	1
53		R-157798	Spring, Shaft	1
			Tap. Screw, Pan Hd. with Washer, 3x8	2
54		R-1270500	Metal bracket, Level meter	1
			Tap. Screw, Pan Hd. with Washer "A", 3x6	2
55		R-3971467	Lamp holder, Dolby	1
			Tap. Screw, Pan Hd., 3x8	2
56		R-1270531	Reflection plate, Level meter	1
			Tap. Screw, Pan Hd. with Washer "A", 3x8	1
57		R-1270501	Metal bracket, Rec knob	2
58		R-3971475	Fix board, Rec knob	2
			Screw, Flat Hd., 2.6x6	4
59		R-387677	Knob, Rec vol.	2
60		R-3971468	Fix plastic board, Tape select switch	4
61		R-1171003	Metal bracket, Tape select knob	1

Key No.	Ref.No.	Part No.	Description	Q'ty
			Screw, Pan Hd. with Washer "F", 2.6x6	2
62		R-157802	Shaft, Tape select knob	1
			E-Ring, 3	2
63		R-3971469	Knob, Tape select	4
64		R-3971471	Knob, Tape counter	1
65		R-3971472	Knob, Reset	1
66		R-447723	Lamp holder, Cassette Rec	1
67		R-1270607	Shield plate, Cassette	1
			Screw, Round Hd., 2.6x4	4
68		R-247144	Special screw, Cassete P.C.B. mtg.	4
69		R-127951a	Shield case, Cassette OSC	1
			Tap. Screw, Round Hd., 3x30	2
			Cassette panel-Bottom cover rear	
			Tap. Screw, Round Hd., 3x16	2
			Cassette panel-Bottom cover front	
			Tap. Screw, Pan Hd., 3x10	4
			Cassette panel-Metal bracket level meter	
			Tap. Screw, Pan Hd., 3x12	6
			Cassette panel-Mechanism cassette	
			Screw, Pan Hd., 3x4	1
			Screw, Pan Hd., 3x6	2
			Cassette switch P.C.B.-Metal bracket	
			Screw, Pan Hd., 2.6x4	2
			Auto stop P.C.B.-Metal bracket, tape counter	
			Tap. Screw, Pan Hd., 3x8	4
			Cassette switch P.C.B.-Panel cassette	
			Tap. Screw, Pan Hd., 3x12	1
			Metal bracket, mechanism right-panel, cassette	

CHASSIS ELECTRICAL PARTS

Key No.	Ref.No.	Part No.	Description	Q'ty
70	L901	R-S871229	Antenna coil assembly, Ferrite, LW/MW	1
			Tap. Screw, Pan Hd. with Washer, 3x10	1
71	S901	R-S47328	Push switch, Power	1
			Screw, Flat Hd., 3x4	2
72		R-W77490	Power transformer	1
			Screw, Pan Hd. with Washer "A", 4x10	4
			Nut, Hex Hd., 4	4
			Washer, Flat, 4x16x1t	8
73		R-S57110	Meter, F meter	1
74		R-S57111	Meter, S meter	1
		R-S37089	AC cord assembly	1
75	S902	R-S47222-1	Rotary switch, Voltage select	1
			Screw, Pan Hd., 3x3	2
			Nut, Hex Hd., 3	2
76		R-S17157a	Terminal plate	1
			Tap. Screw, Pan Hd., 3x8	2
		R-377046a-5	Housing, 5P, CS-1, 3, 14, 19, 18	5
		R-377046a-3	Housing, 3P, CS-6, 9, 8, 21, 15, 16	6
		R-377046a-4	Housing, 4P, CS-4, 2	2
		R-377046a-8	Housing, 8P, CS-10, 5	2
		R-377046a-6	Housing, 6P, CS-7, 24	2
		R-257149	Terminal, Housing	76
		R-S27222	Socket, CS-22, Motor	1
	PL101	R-S17078-1	Pilot lamp, 6V 21mA, FM ST	1
77		R-S27204	Socket, FM antenna	1
78		R-S27258	Socket, AM antenna	1
79		R-S27164	Jack, Headphone	1
80		R-S27259	Socket, Mic	1
			Screw, Flat Hd., 2.6x4	2
81		R-S2728	Socket, AUX IN OUT	1

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
			Tap. Screw, Pan Hd., 3x10 black	2
82		R-S27058	Jack, Speaker	4
			Tap. Screw, Pan Hd., 3x10 black	8
83		R-S17047	Terminal, AUX OUT	1
			Tap. Screw, Pan Hd., 3x10 black	2
	F4, 5	R-S17235	Fuse, 2A, Amp. P.C.B., 5.2 φx20	2
		R-377052-4	Housing, 4P, CS-11, 20, 17	3
		R-377052-3	Housing, 3P, CS-12	1
		R-257158	Terminal, Housing 4P & 3P	15
		R-S27263	Connector receptacle, CS-13	1
	PL1001 ~1008	R-S17233	Pilot lamp, 6V 21mA, Touch P.C.B.	8
	F2, 6	R-S17074	Fuse, 315mA, Amp. P.C.B., 5 φx20	2
	F1, 3	R-S17169	Fuse, 4A, Amp. P.C.B., 5.2 φx20	2
	PL403~ 406	R-S17236	Pilot lamp, Dolby Cr02 FeCr Rec., 14V 40mA	4
	S406	R-S47351	Push switch, Memory SW	1
			Screw, Flat Hd., 3x4	2
95		R-S57107	Level meter	2
		R-S27264	Plug, 6P, CP-13	1
		R-S1788	Pin, Plug 6P, CP-13	6
		R-S1787	Pin, Housing, CS-13	6
RESISTORS (Resistors are of carbon type, ± 10% allowance and $\frac{1}{4}$W unless otherwise noted.)				
	R901,902		330 K ohm	2
	R903,904		47 K ohm	2
CAPACITORS				
	C901		Ceramic, 2pF, ± 0.25pF, 50V, SL	1
	C902		Oil condencer, ECN-C4A473	1
		R-S17243	Cord clip	7
		R-377063	Nylon band	2
TUNER P.C.B. ASSEMBLY				
84		R-A72405	Circuit board assembly, Tuner	1
	T1	R-W27079	Antenna coil, Bobbin, FM	1
	T2	R-W9713	VHF coil	1
	T3	R-W5T787	IF transformer	1
	L1,3	R-W1780	Choke coil, 2.2 μH	2
	L2	R-W9714	VHF coil	1
	L4	R-W1779	Choke coil, 18 μH	1
	L5	R-W5T776	Quad coil	1
	CF1	R-S17065	Ceramic filter	1
	CF2	R-S17146	Ceramic filter	1
	CT1,2,3	R-C0716	Trimmer	3
	VR1, VC1,2	R-C1728	Variable capacitor	1
		R-S27207-8	Plug, 8P, CP-5, 10	2
	S1-12	R-S47321	Push switch, Function	1
	SVR1,5,6 101,103	R-R110729	Preset resistor, 5K-B	5
	SVR2	R-R110735	Preset resistor, 20K-B	1
	SVR3, 4	R-R110724	Preset resistor, 10K-B	2
	SVR7,102	R-R110727	Preset resistor, 1K-B	2
	CT4,9	R-C0716	Trimmer	2
	CT5,6,7,8	R-C0729	Trimmer	2
	L6	R-W1740	Choke coil	1
	T5	R-W8725	OSC coil, LW	1
	T6	R-W8775	OSC coil, MW	1
	T7	R-W8733	OSC coil, SW	1
	T4	R-W2752	Antenna coil, Bobbin, SW	1
	CF3	R-W5CF701	Ceramic filter	1
	CF4	R-S17222	Ceramic filter	1
	T8	R-W5T312	IF transformer	1
		R-S27207-4	Plug, 4P, CP-2, 4	2

Key No.	Ref. No.	Part No.	Description	Q'ty
		R-S27207-5	Plug, 5P, CP-1, 3	2
	L101,102	R-W1751	Choke coil, 40mH	2
		R-S27207-3	Plug, 3P, CP-8, 6, 9	3
		R-S27207-6	Plug, 6P, CP-7	1
		R-S27206-4	Plug, 4P, CP-11, 20	2
		R-S27206-3	Plug, 3P, CP-12	1
		R-S1787	Miniature pin	6
SEMICONDUCTORS				
	Q1		FET, JF1033	1
	Q2		Transistor, 2SC668 D, E	1
	Q3,6		Transistor, 2SC930 D, E	2
	Q4		Transistor, 2SC1318 R	1
	Q5,7		Transistor, 2SC536 E	2
	Q8		Transistor, 2SA702 F	1
	Q9		Transistor, 2SC536 E, F	1
	IC1		Integrated circuit, LA1230	1
	Q10~13		Transistor, 2SC930 D	4
	D1,2,3		Diode, 1SV55	3
	D4		Diode, 1S2139C	1
	D5,6,7,9~12		Diode, 1S1588 or 1S2473	7
	D13,14,18,101		Diode, 1S1588	3
	D15, 16		Diode, 1S1588 AM	2
	Q101, 102, 105		Transistor, 2SC536 F	3
	IC100		Integrated circuit, LA3350	1
	Q103, 104		Transistor, 2SC1740 LNS	2
	IC101, 102		Integrated circuit, μPC1023H	2
	Q106		Transistor, 2SD438 E	1
	D181		Diode, WZ058	1
	D191, 192		Diode, EQB01-12	2
RESISTORS (Resistors are of carbon type, ± 10% allowance and $\frac{1}{4}$W unless otherwise noted.)				
	R18		56 ohm	1
	R13, 19, 22, 78, 83		100 ohm	5
	R31, 32, 59, 69, 70		330 ohm	5
	R56, 117, 118		470 ohm	3
	R7, 84, 104, 131, 132, 141, 142, 163 164, 86, 121, 122		1K ohm	12
	R17,68		1.2K ohm	2
	R54, 71, 85, 91		2.2K ohm	4
	R34, 182		2.7K ohm	2
	R16, 21, 30, 57, 74, 108, 111, 112, 183		3.3K ohm	9
	R38, 53, 76, 119, 120, 186, 1		3.9K ohm	7
	R29, 35, 37, 44, 45, 47, 48, 49, 36, 67, 139, 140, 82		5.6K ohm	13
	R23, 101, 102		8.2K ohm	3
	R24, 43, 46, 51, 61, 161, 162, 173, 174, 55		10K ohm	10
	R12, 15, 28, 133, 134, 143, 144, 185		18K ohm	8
	R10, 60		39K ohm	2
	R20		47K ohm	1
	R25, 39, 41, 42, 52		56K ohm	5
	R2, 6, 14, 26, 33, 40, 80, 105, 165, 166, 171, 172		100K ohm	12
	R88		15K ohm	1
	R11		220K ohm	2
	R8		560K ohm	1
	R9		2.2M ohm	1
	R5		56 ohm	1
	R50		10K ohm	1
	R4		100 ohm	1
	R63		120 ohm	1
	R81		560 ohm	1
	R65		820 ohm	1
	R72, 151, 152, 94		1.5K ohm	4

NOTES : 1. Part orders must contain Model Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
	R75		1.8K ohm	1
	R87, 95		6.8K ohm	2
	R66, 113, 114		22K ohm	3
	R73, 79, 137, 138		82K ohm	4
	R62		2.2K ohm	1
	R89, 195		10 ohm	2
	R64		82 ohm	1
	R3		1M ohm	1
	R90, 58		22K ohm	2
	R115, 116, 187		150K ohm	3
	R135, 136		330K ohm	2
	R169, 170		820K ohm	2
	R184		4.7K ohm	1
	R27, 92, 100		Solid, 100 ohm, ± 10%, $\frac{1}{2}$ W	3
	R194		Carbon, 560 ohm, ± 10%, $\frac{1}{2}$ W	1
	R130, 191, 192		Metal oxide film, 470 ohm, ± 10%, 3W	3
	R129		〃 220 ohm 〃 1W	1
	R160		〃 1K ohm 〃 〃	1
	R193		〃 820 ohm 〃 2W	1
	R198, 199		〃 220 ohm 〃 〃	2
	R181		Metal film, 150 ohm, ± 10%, $\frac{1}{2}$ W Fuse	1
	R188		〃 220 ohm 〃 〃 〃	1
CAPACITORS				
	C2		Ceramic, 390 pF, ± 10%, 50V, YW	1
	C18, 60		〃 10 pF 〃 〃 SL	2
	C15, 98		〃 20 pF 〃 〃 〃	2
	C17		〃 35 pF 〃 〃 〃	1
	C9, 28, 169, 170		〃 100 pF 〃 〃 〃	4
	C92, 63		〃 15 pF 〃 〃 〃	2
	C97, 73		〃 12 pF 〃 〃 〃	2
	C145, 146		〃 820 pF 〃 〃 YW	2
	C163, 164		〃 47 pF 〃 〃 SL	2
	C14		〃 1.5pF, ±0.25pF, 50V, SL	1
	C93		〃 2pF 〃 〃 〃	1
	C1, 7		〃 4pF, ±0.5pF, 50V, SL	2
	C8, 20, 68		〃 5pF 〃 〃 〃	3
	C19		〃 6pF 〃 〃 〃	1
	C22		〃 0.001 mfd, ±20%, 50V, E	1
	C23 ~ 27, 31, 32		〃 0.02mfd, ±20%, 12.5V, BC	7
	C61		〃 8pF, ± 1pF, 50V, SL	1
	C72		〃 0.001mfd, ±10%, 50V, YW	1
	C165, 166		〃 470pF, ±20%, 50V, YW	2
	C71,74,83.84.94,95,96,183,184, 187·191,192,195,30,33,34,35.40		〃 0.04 or 0.039mfd, $^{+80}_{-20}$%, 50V, FZ	18
	C79		〃 0.022mfd, $^{+80}_{-20}$%, 50V, FZ	1
	C4, 5, 10, 11, 12, 16, 41		〃 0.02 mfd 〃 〃 〃	7
	C81		〃 0.01 mfd 〃 〃 〃	1
	C77		Styrol, 4200pF, ±5%, 50V	1
	C69		〃 100pF 〃 〃	1
	C75		〃 350pF 〃 〃	1
	C76		〃 200pF 〃 〃	1
	C101		〃 1400pF, ± 10%, 50V	1
	C102		〃 60pF 〃 〃	1
	C66		Mylar, 0.0022mfd, ± 20%, 50V	1
	C65		〃 0.0033mfd 〃 〃	1
	C64, 67, 70, 85, 86, 88		〃 0.01 mfd 〃 〃	6
	C82		〃 0.022 mfd 〃 〃	1
	C91		〃 0.0068mfd, ± 10%, 50V	1
	C90, 117, 118		〃 0.01 mfd 〃 〃	3
	C103		〃 0.047 mfd 〃 〃	1
	C109, 110		〃 0.0022mfd 〃 〃	2
	C111, 112		Mylar, 0.0056mfd, ± 10%, 50V	2
	C115, 116		〃 0.001 mfd 〃 〃	2
	C143, 144		〃 0.15mfd 〃 〃	2
	C131, 132, 167, 168		Electrolytic 50V/1mfd	4
	C13		〃 35V/0.1mfd Tantalum	1
	C37, 106		〃 16V/3.3mfd Alsicon	2
	C36, 38		〃 16V/1mfd Alsicon	2
	C21		〃 10V/0.1mfd Alsicon	1
	C39		〃 10V/4.7mfd	1
	C29		〃 10V/1mfd	1
	C80		〃 6.3V/4.7mfd	1
	C89, 87		〃 10V/1mfd	2
	C100		〃 16V/330mfd	1
	C119		〃 16V/2.2mfd Alsicon	1
	C104		〃 16V/0.47mfd Alsicon	1
	C105		〃 16V/0.22mfd Alsicon	1
	C113, 114		〃 16V/1mfd	2
	C107, 108		〃 16V/3.3mfd	2
	C129, 130		〃 35V/100mfd	2
	C137, 138		〃 35V/10mfd	2
	C160		〃 35V/220mfd	1
	C161, 162		〃 25V/1mfd Alsicon	2
	C181		〃 50V/47mfd	1
	C182		〃 35V/47mfd	1
	C185		〃 35V/22mfd	1
	C193, 195		〃 16V/470mfd	2
	C186		〃 35V/2.2mfd Tantalum	1
	C6		〃 35V/3.3mfd Tantalum	1
	C84		Mylar, 0.039mfd, ± 20%, 50V	1
EQ P.C.B. ASSEMBLY				
85		R-A72406	Circuit board assembly, EQ	1
	SVR291, 391	R-R110737	Preset resistor, 500 ohm	2
		R-S27207-3	Plug, 3P, CP-21	1
SEMICONDUCTORS				
	IC291, 391		Integrated circuit, μPC1024H	2
RESISTORS				
	R295, 395		Carbon, 150K ohm, ± 5%, $\frac{1}{4}$ W	2
	R296, 396		〃 18K ohm 〃 〃	2
	R293, 393		〃 100K ohm 〃 〃	2
	R294, 394		〃 820K ohm 〃 〃	2
	R292, 392		〃 1K ohm 〃 〃	2
	R291, 391, 297, 397		〃 47K ohm 〃 〃	4
CAPACITORS				
	C296, 396		Mylar, 0.0047mfd, ± 5%, 50V	2
	C295, 395		〃 0.018 mfd 〃 〃	2
	C298, 398		Ceramic, 470pF, ± 10%, 50V, YW	2
	C292, 392		〃 47pF 〃 〃 SL	2
	C291, 391		Electrolytic 16V/4.7mfd Tantalum	2
	C293, 393		〃 6.3V/10mfd	2
	C297, 397		〃 35V/10mfd	2
TOUCH P.C.B. ASSEMBLY				
86		R-A72407	Circuit board assembly, Touch	1
		R-S37157	P.C joinner, 5P	2
		R-S27250	Socket, Pilot lamp	16
SEMICONDUCTORS				
	IC1001		Integrated circuit, HA1190	1
	IC1002		Integrated circuit, HA1194	1
	D1001		Diode, 1S1588	1

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PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
	RESISTORS (Resistors are of carbon type, ± 10% allowance and $\frac{1}{4}$W unless otherwise noted.)			
	R1001 ~ 1008, 1017		2.2M ohm	9
	R1022		220 ohm	1
	R1020		1K ohm	1
	R1021		15K ohm	1
	R1023		8.2K ohm	1
	R1009 ~ 1016		Solid, 10M ohm, ±20%, $\frac{1}{2}$W	8
	R1019		Metal film, 47 ohm, ±10%, $\frac{1}{2}$W Fuse	1
	CAPACITORS			
	C1001 ~ 1008		Ceramic, 470pF, ±10%, 50V, YW	8
	C1009, 1011, 1012		〃 0.022mfd, $^{+80}_{-20}$%, 50V, FZ	3
	C1010		Electrolytic 16V/100mfd	1
	PRESET P. C. B. ASSEMBLY			
87		R-A72408	Circuit board assembly, Preset	1
	VR1101 ~ 1107	R-R110734	Variable resistor, 100K-B, FUNCTION	7
	SEMICONDUCTORS			
	D1101 ~ 1107		Diode, 1S1588	7
	RESISTORS (Resistors are of carbon type, ±10% allowance and $\frac{1}{4}$W unless otherwise noted.)			
	R1101 ~ 1107		4.7K ohm	7
	TONE P. C. B. ASSEMBLY			
88		R-A72409	Circuit board assembly, Tone	1
		R-S27207-5	Plug, 5P, CP-14, 19	2
	VR251, 351	R-R160717	Variable resistor, 50K-Ax2, Volume	1
	VR252, 253, 352, 353	R-R160715	Variable resistor, 50K-Ax2, Treble, Bass	2
	VR254, 354	R-R160716	Variable resistor, 50K-M, N, Balance	1
	SEMICONDUCTORS			
	Q261, 361, 262, 362		Transistor, 2SC536F	4
	RESISTORS			
	R262, 362		Carbon, 220K ohm, ±5%, $\frac{1}{4}$W	2
	R263, 363, 267, 367		〃 1K ohm 〃 〃	4
	R268, 368		〃 680 ohm 〃 〃	2
	R266, 366		〃 10K ohm 〃 〃	2
	R264, 364		〃 1M ohm 〃 〃	2
	R265, 365		〃 6.8K ohm 〃 〃	2
	R261, 361		〃 18K.ohm 〃 〃	2
	R251		Metal film, 150ohm, ±5%, $\frac{1}{2}$W, Fuse	1
	CAPACITORS			
	C265, 365		Mylar, 0.0047mfd, ±10%, 50V	2
	C268, 368		〃 0.22 mfd 〃 〃	2
	C267, 367		〃 0.027 mfd 〃 〃	2
	C266, 366		〃 0.047 mfd 〃 〃	2
	C263, 363		Ceramic, 470pF, ±10%, 50V, YW	2
	C262, 362		〃 10pF 〃 〃 SL	2
	C251		Electrolytic 35V/100mfd	1
	C264, 364		〃 25V/4.7mfd	2
	C261, 361		〃 25V/3.3mfd Alsicon	2
	AMP. P. C. B. ASSEDMBLY			
89		R-A72410	Circuit board assembly, Amp.	1
	SVR211, 311	R-R110729	Preset resistor, 5K	2
		R-S17024	Fuse clip	12
	L201	R-W1046	Choke coil, 40μH	1
		R-237050	Eyelet lug	1
	SEMICONDUCTORS			
	D201		Diode, S5VB10	1
	D207		Zener diode, EQB-01-33	1

Key No.	Ref. No.	Part No.	Description	Q'ty
	D205, 206		Diode, 10D2	2
	Q216, 316, 217, 317, 201		Transistor, 2SD313 VD	5
	Q214, 314		〃 2SD438 E	2
	Q215, 315		〃 2SB560 E	2
	Q211, 311		〃 2SA702 F	2
	Q213, 313		〃 2SC536 E	2
	Q212, 312		〃 2SD438 E	2
	RESISTORS			
	R214, 314		Carbon, 100K ohm, ±5%, $\frac{1}{4}$W	2
	R211, 311, 225, 325		〃 1K ohm 〃 〃	4
	R224, 324		〃 10 ohm 〃 〃	2
	R220, 320, 221, 321		〃 220 ohm 〃 〃	4
	R219, 319		〃 3.3K ohm 〃 〃	2
	R217, 317		〃 820 ohm 〃 〃	2
	R212, 312		〃 56K ohm 〃 〃	2
	R216, 316		〃 8.2K ohm 〃 〃	2
	R213, 313		〃 150K ohm 〃 〃	2
	R218, 318		〃 2.2K ohm 〃 〃	2
	R226, 326		〃 15K ohm 〃 〃	2
	R215, 315		〃 180 ohm 〃 〃	2
	R201		Metal film, 1K ohm, ±5%, 1W Fuse	1
	R222, 322, 223, 323		Cement, 0.47ohm, ±5%, 5W	4
	CAPACITORS			
	C211, 311		Mylar, 0.0012mfd, ±10%, 50V	2
	C220, 320		〃 0.1 mfd, ±20%, 50V	2
	C209		〃 0.047 mfd, ±20%, 200V	1
	C201 ~ 204, 304, 305		〃 0.047 mfd 〃 100V	6
	C214, 314		Ceramic, 0.001mfd, ±10%, 50V, YW	2
	C215, 315		〃 100pF 〃 〃 SL	2
	C217, 317		〃 20pF 〃 〃 〃	2
	C208, 302		〃 0.04mfd, $^{+80}_{-20}$%, 50V, FZ	2
	C219, 319		Electrolytic 50V/1000mfd	2
	C216, 316		〃 35V/220mfd	2
	C213, 313, 207		〃 35V/100mfd	3
	C221, 321		〃 35V/10mfd	2
	C218, 318		〃 25V/220mfd	2
	C212, 312		〃 50V/3.3mfd	2
	C205		〃 63V/3300mfd	1
	C303		〃 25V/2200mfd	1
	C206		〃 35V/1000mfd	1
	C301		〃 63V/100mfd	1
	LAMP P. C. B. ASSEMBLY			
90		R-A72411	Circuit board assembly, Lamp	1
		R-4171225	Printed circuit board	1
	PL1 ~ 6	R-S17205	Pilot lamp, 12V 110mA, Dial	6
	CASSETTE AMP. P. C. B. ASSEMBLY			
91		R-A72412	Circuit board assembly, Cassette Amp.	1
	L401, 501	R-W1777	Bias trap coil	2
	L402, 502, 403, 503, 404, 504	R-W6724	Coil, 10mH	6
	SVR401, 501, 402, 502, 403, 503	R-R110724	Preset resistor, 10K	6
		R-S17152	Filter	2
		R-S27207-3	Plug, 3P, CP-15, 16	2
		R-S27206-5	Plug, 5P, CP-17	1
	S401	R-S47282	Slide switch	1
		R-S37158	P. C. joinner	1
		R-S27207-6	Plug, 6P, CP-24	1
	SEMICONDUCTORS			
	IC401, 501		Integrated circuit, TA7120	2

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PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
	IC402,502		Integrated circuit, NE545 B	2
	Q401,501 402,502. 403,503		Transistor, 2SC536 E	6
	D401,501, 402,502		Diode, 1S188 AM	4
	RESISTORS			
	R412,512		Carbon, 150K ohm, ±5%, $\frac{1}{4}$W	2
	R411,511		〃 10 ohm 〃 〃	2
	R416,516		〃 4.7K ohm 〃 〃	2
	R415,515		〃 56K ohm 〃 〃	2
	R413,513,405		〃 3.3K ohm 〃 〃	3
	R414,514		〃 4.7K ohm 〃 〃	2
	R404		〃 1K ohm 〃 〃	1
	R406,425,525		〃 10K ohm 〃 〃	3
	R407		〃 1.5K ohm 〃 〃	1
	R417,517		〃 180 ohm 〃 〃	2
	R418,518		〃 47K ohm 〃 〃	2
	R422,522		〃 270K ohm 〃 〃	2
	R423,523		〃 150K ohm 〃 〃	2
	R424,524		〃 680K ohm 〃 〃	2
	R421,521		〃 100K ohm 〃 〃	2
	R420,520		〃 120 ohm 〃 〃	2
	R426,526		〃 18K ohm 〃 〃	2
	R428,528		〃 330K ohm 〃 〃	2
	R427,527		〃 39K ohm 〃 〃	2
	R429,529		〃 5.6K ohm 〃 〃	2
	R431,531		〃 680 ohm 〃 〃	2
	R433,533		〃 820 ohm 〃 〃	2
	R435,535		〃 150K ohm 〃 〃	2
	R432,532		〃 220 ohm 〃 〃	2
	R430,530		〃 27K ohm 〃 〃	2
	R436,536		〃 6.8K ohm 〃 〃	2
	R437,537		〃 3.3K ohm 〃 〃	2
	R438,538		〃 82 ohm 〃 〃	2
	R439,539		〃 3.9K ohm 〃 〃	2
	R441,541		〃 1.2K ohm 〃 〃	2
	R442,542		〃 8.2K ohm 〃 〃	2
	R419,519		Metal film, 3.3K ohm, ±1%, $\frac{1}{8}$W	2
	R401		Metal oxide film, 360ohm, ±5%, 3W	1
	R402,403		〃 220ohm 〃 1W	2
	CAPACITORS			
	C420,520		Mylar, 0.0056mfd, ±5%, 50V	2
	C414,514		〃 0.015mfd 〃 〃	2
	C423,523		〃 0.0047mfd 〃 〃	2
	C422,522		〃 0.027mfd 〃 〃	2
	C426,526		〃 0.047mfd 〃 〃	2
	C442,542		〃 0.027mfd 〃 〃	2
	C441,541		〃 0.0082mfd 〃 〃	2
	C439,539		〃 0.039mfd 〃 〃	2
	C438,538		〃 0.01mfd 〃 〃	2
	C436,536		〃 0.015mfd 〃 〃	2
	C435,535		〃 0.001mfd 〃 〃	2
	C431,531		〃 0.1mfd 〃 〃	2
	C446,546		Ceramic, 470pF, ±10%, 50V, YW	2
	C417,517		〃 30pF 〃 〃 SL	2
	C445,545		〃 20pF 〃 〃 SL	2
	C413,513		Styrol, 1000pF, ±5%, 50V	2
	C411,511		〃 160pF, 〃 〃	2
	C412,512		Electrolytic 10V/3.3mfd Tantalum	2
	C418,518		〃 16V/33mfd	2
	C415,515		〃 6.3V/220mfd	2
	C402,403		〃 16V/220mfd	2
	C416,516,421,521,425,525		〃 16V/10mfd	6
	C419,519		〃 25V/1mfd Alsicon	2
	C429,529		〃 25V/3.3mfd Alsicon	2
	C430,530		〃 25V/0.1mfd Alsicon	2

Key No.	Ref. No.	Part No.	Description	Q'ty
	C401		Electrolytic 25V/220mfd	1
	C404		16V/100mfd	1
	C432,532,443,543		25V/1mfd	4
	C434,534		25V/3.3mfd Alsicon	2
	C437,537		10V/3.3mfd Alsicon±10%	2
	C427,527,428,528,444,544		16V/10mfd	6
	C424,524		10V/220mfd	2
CASSETTE SW P.C.B. ASSEMBLY				
92		R-A72413	Circuit board assembly, Cassette SW	1
		R-W8737	Coil	1
	VR401, 501	R-R145729	Variable resistor, 5K-A	2
	SVR551, 552	R-R110723	Preset resistor, 100K-B	2
	S402,404	R-S47349	Push switch, Bias, Dolby	2
	S405	R-S47146	Push switch, Beat cut	1
	S403	R-S47350	Push switch, EQ	1
		R-S27271-5	Plug, 5P, CP-18	1
		R-1270596	Metal plate, Rec Vol earth	1
			Screw, Flat Hd., 3x4	2
	SEMICONDUCTORS			
	Q451,452		Transistor, 2SC1317 R	2
	RESISTORS			
	R457		Carbon, 5.6K ohm, ±5%, $\frac{1}{4}$W	1
	R456		〃 3.3K ohm 〃 〃	1
	R451,452,453		〃 820 ohm 〃 〃	3
	R455		Solid, 33 ohm, ±10%, $\frac{1}{2}$W	1
	R458		Metal oxide film, 220 ohm, ±5%, 1W	1
	CAPACITORS			
	C453,454		Mylar, 0.001 mfd, ±10%, 50V	2
	C457,458		〃 0.01 mfd 〃 〃	2
	C455		〃 0.0022mfd, ±5%, 100V	1
	C456,459		Ceramic, 120pF, ±10%, 50V, YW	2
	C452		Styrol, 330pF, ±5%, 125V	1
	C451		Electrolytic 16V/330mfd	1
AUTO STOP P.C.B. ASSEMBLY				
93		R-A72414	Circuit board assembly	1
	S407	R-S17038	Lead switch	1
	SEMICONDUCTORS			
	Q551		Transistor, 2SA702 F	1
	Q552		Transistor, 2SC1317 R	1
	D551,552		Diode, 1S1588 T	2
	D553		Diode, 10D1	1
	RESISTORS			
	R552		Carbon, 2.7K ohm, ±5%, $\frac{1}{4}$W	1
	R553		〃 56K ohm 〃 〃	1
	R551		〃 100 ohm 〃 〃	1
	R554		〃 680 ohm 〃 〃	1
	R555		〃 1K ohm 〃 〃	1
	R556		Metal film, 10 ohm, ±5%, $\frac{1}{4}$W Fuse	1
	R557		Metal oxide film, 150 ohm, ±5%, 2W	1
	CAPACITORS			
	C551		Electrolytic 10V/100mfd	1
	C552		〃 16V/47mfd	1
	C553		〃 25V/22mfd	1
	C554		〃 16V/10mfd	1
CASSETTE LAMP P.C.B. ASSEMBLY				
94		R-A72415	Circuit board assembly, Cassette lamp	1
		R-4171226-4	Printed circuit board	1
	PL401, 402	R-S17205	Lamp	2

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

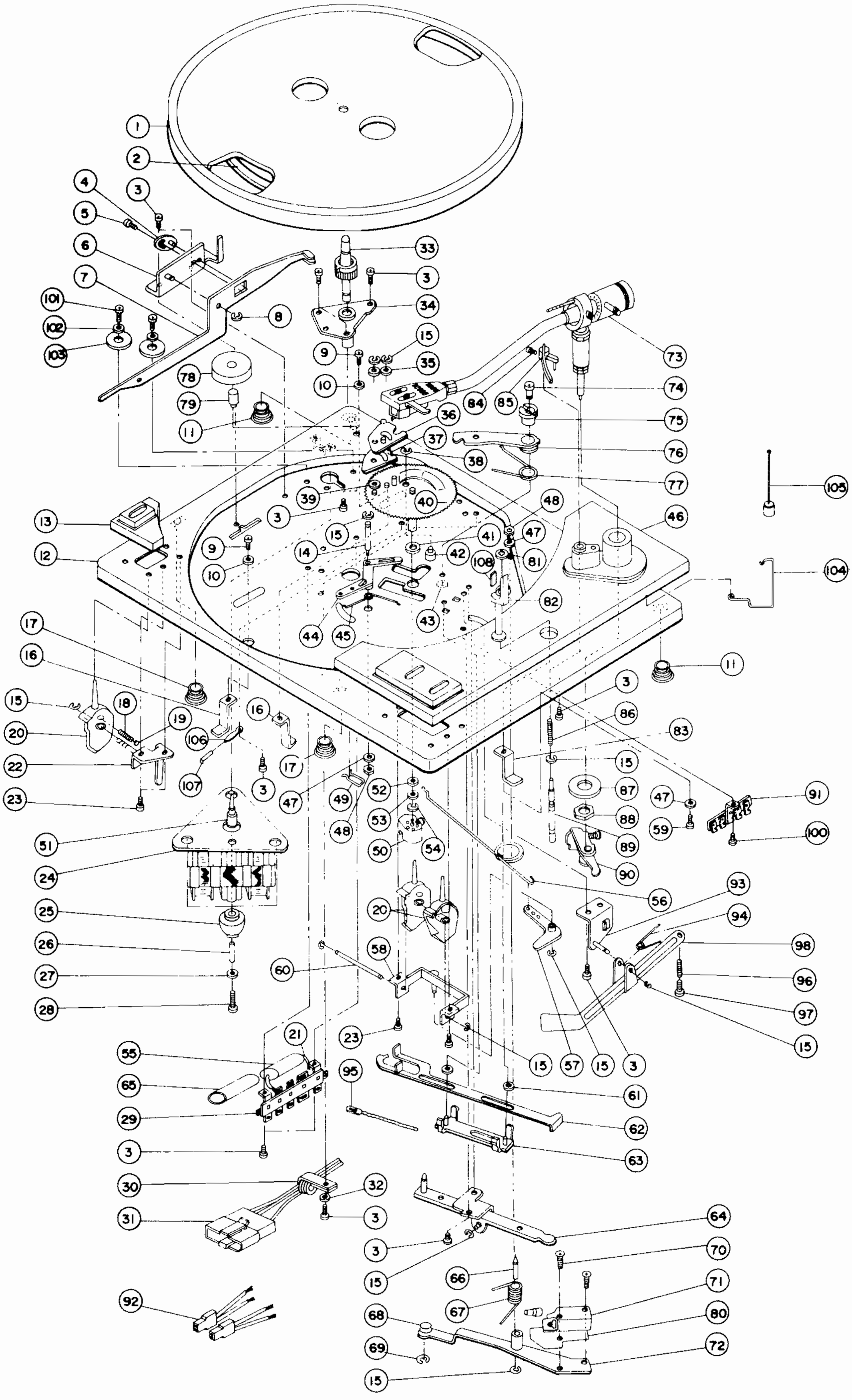
PARTS LIST (PLAYER MECHANISM)

Key No.	Ref. No.	Part No.	Description	Q'ty
PLAYER MECHANISM (R-S57109)				
1		620016	Turn-table	1
2		700515-2	Belt	1
3			Tap. Screw, Pan Hd., 3x8	10
4		893040	Eccentricity pin, Base speed change	1
5			Screw, Pan Hd., 3x6	1
6		893046	Base, Speed change	1
7		870402	Arm, Speed change	1
8			E-ring, 3	1
9			Screw, Pan Hd., 4x10	2
10			Nylon washer, 4x10x1t	2
11		890166-3	Spring	2
12		850844	Unit plate	1
13		894185	SP cover	1
14		890322	Reject lever shaft	1
15			E-ring, 3.2	11
16		890197	Stopper	2
17		890166-1	Spring	2
18		E-287680	Spring, Cam speed change	1
19			Steel ball, 4 φ	1
20		894186	Cam, Speed change	3
21		890542-0	UL tube, 1 φx20L	2
22		893604	Base, Cam speed change	1
23			Tap. Screw, Pan Hd., 3x6	4
24		631200	Phono motor assembly	1
25		702230	Rubber cushion	3
26		893659-1	Pipe	3
27			Washer, Flat, 3.2x10x0.8t	3
28			Tap. Screw, Bind Hd., 3x20	3
29		895466	Terminal	1
30		890593	Clamper, Cord	1
31		894421	A. C. cord assembly	1
32			Washer, Flat, 3.2x8x0.5t	1
33		891791	Shaft, Turn-table	1
34		700514-1	Shat bracket assembly, Turn-table	1
35		890746	Washer, Clutch	2
36		890273	Clutch plate	1
37		890200	Clutch guide	1
38		E-813152	E-ring	1
39		890747	Washer, Clutch guide	1
40		891210	R gear assembly	1
41			Fiber washer, 5x10x0.5t	2
42		E-817790	Eccentricity pin, R gear	1
43		E-813153	E-ring	1
44		890218	Kick lever	1
45		890259	Torsion spring	1
46		850845	Reject cover	1
47			Washer, Spring, 3	3
48			Nut, Hex Hd., 3	2
49		E-271110	Stopper, Turn-table shaft	1
50		890721	Switch lever assembly	1
51		703262-2	Pulley	1
52			Fiber washer, 5x10x0.3t	1
53			Fiber washer, 5x10x1t	1

Key No.	Ref. No.	Part No.	Description	Q'ty
54			E-ring, 4	1
55			Oil condencer, ECN-C4A473, 0.047mfd	1
56		890379-2	Reject spring	1
57		891780	Reject link	1
58		893611	Reject base assembly	1
59			Screw, Pan Hd., 3x30	1
60		893612	Shaft, Cam speed change	1
61		890765	Washer, Arm return	2
62		891635-1	Arm return assembly	1
63		870039-1	Base, Arm return	1
64		890794	Seesaw arm assembly	1
65		890835	UL tube, 16 φx40L	1
66		890322-2	Shaft, Reject lever	1
67		892331	Arm spring	1
68		890995	Eccentricity pin	1
69		E-813152	E-ring	1
70			Screw, Pan Hd., 3x16 Nylon	2
71		890334	Micro switch	1
72		890994	Arm, switch	1
73		851152	Pick-up assembly	1
74		890620	Gear stop stud	1
75		890619	Eccentricity mounting	1
76		890618	Gear stop arm	1
77		890628	Gear stop spring	1
78		890876	Adaptor	1
79		890675	Shaft, Adaptor	1
80		893327	Insulation sheet	1
81			CS-ring, 3.5	1
82		893306	Rest clip assembly, Pick-up	1
83		893854-1	Stopper, Rest clip	1
84			Screw, T2.6x4	1
85		893135	Elevation plate	1
86		E-832780	Elevation spring	1
89		892326-4	Elevation shaft	1
90		895509	Arm, Pick-up table	1
91		0-10002-51	5P lug plate	1
92		703846-5	Connector assembly	2
93		893615	Seesaw angle assembly	1
94		893618	Spring, Seesaw angle	1
95			Band	1
96		E-813681	Spring	1
97			Screw, Pan Hd., 3x12	1
98		893616	Cue seesaw	1
99		892484	Sleeve	1
100			Tap. Screw, Pan Hd., 3.5x8	1
101		893062	Screw	2
102			Fiber washer, 4x12x0.5t	2
103		893407	Caution label	2
106		890755	Lug	1
107			UL tube, 3 φx50L	1
108		891913-2	Sheet	1
		R-S07149	Cartridge assembly	1
		R-S07163	Stylus, DIA	1
		R-447943	Turn table cover	1

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
: 2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

EXPLODED VIEW (PLAYER MECHANISM)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PARTS LIST (CASSETTE MECHANISM)

Key No.	Ref. No.	Part No.	Description	Q'ty
1		268 05 03	Sub lever, REC	1
2		48 04 08	Spring, Head	1
3		408 04 13	Spring, Head panel	2
4		408 04 05	Spring, RQ	1
5		715 07 81	Pinch rollar assembly	1
6		03 06 01	Spacer, Idler	1
7		408 07 92	Cluth arm assembly	1
8		408 07 04	Plate, Clutch	1
9		408 07 05	Pulley, Clutch	1
10		02 05 02	Shaft, Clutch	1
11		408 07 06	Bracket, Clutch spring·	1
12		02 05 06	Stopper, Clutch spring	1
13		03 06 03	Washer, Clutch shaft stop	1
14		238 04 06	Spring, Clutch arm	1
15		58 05 03	Felt, Clutch	1
17		58 13 16	Spring, FF arm	1
18		408 08 04	Plate, FF	1
19		408 08 10	Spring, Plate FF	1
20		408 08 15	Plate, Rewind	1
21		408 08 10	Spring, Plate rewind	1
22		11 05 05	Nylon washer	1
23		408 09 01	Brake arm	1
24		408 09 02	Spring, Brake arm	1
25		408 09 03	Plate, Brake arm	1
26		408 10 81	Rewind idler arm	1
27		211 09 02	Rewind idler	1
28		02 9 05B	Spring, Rewind idler arm	1
29		58 09 03	Flywheel capstan	1
30		06 04 05	Spring, Plate flywheel	1
31		408 11 95	Plate, Flywheel	1
32		408 14 05	Auto lever	1
33		998 14 01	Spacer, Auto lever	1
36			Screw, Pan Hd. with Washer, M2x5	6
37			Screw, Pan Hd. +, −, M2x6	1
38			Screw, Pan Hd. with Washer, M2.6x4	3
39			Screw, Bind Hd., M2.6x4	1
40			Screw, Pan Hd., M2.6x10	1
41			E Ring, 1.2	2
42			E Ring, 1.5	4
43			E Ring, 1.9	1
44			E Ring. 2.0	2
45			E Ring, 2.5	1
46			E Ring, 3.2	1
47			E Ring, 4.0	2
50		706 15 01	Washer, Plane, M2.6	1
51			Washer, Plane, 2.3x4.3x0.4t	1
52			Washer, Plane, 7x2.2x0.25t	2
53		03 15 03	F Washer	1
58		542 01 81	Chassis assembly	1
60		1065 02 91	Bracket assembly, Button	1
65		542 03 01	Slide lever, REC	1
66		09 03 02	Spacer, Slide lever REC	1
67		132 03 03	Spring, Sub lever REC	1
68		268 05 15	Stopper, Sub lever REC	1
70		713 04 81	Panel, Head	1
71		668 05 01	Spring, Pinch roller	1
72		79 05 01	Spacer, REC/PLAY head	1
73		463 04 02	Spacer, Erase head	2
74		408 04 11	Spacer, Panel head	1
75		542 04 08	Slide lever, PLAY	1
76		09 03 02	Spacer, Slide lever PLAY	4
77		572 06 95	Reel plate assembly	2
78		04 05 08	Spring, Back tension	1
79		542 07 01	Spring, Clutch	1
82		408 08 91	FF arm assembly	1
83		668 08 10	FF idler	1
84		668 08 02	RF idler	1
85		668 08 03	Plate, Clutch RF	1
86		668 08 05	Bracket, Spring clutch RF	1
87		668 08 06	Stopper, Spring clutch RF	1
88		668 08 07	Spring, Clutch RF	1
89		668 08 08	Shaft, RF	1
90		668 08 09	Washer, Clutch	1
91		369 07 01	Bush capstan	1
92		446 07 01	Earth plate	1
95		408 12 01	Bracket, Motor	1
96		624 12 01	Square driving belt	1
97		750 12 10	Spacer, Motor	2
98		588 09 10	Rubber cushion, Motor	4
99		446 11 02	Cushion	1
100		716 12 01	Pulley, Motor	1
101		542 13 03	Stopper, EJECT	1
102		268 12 01	Spring, Stopper EJECT	1
103		542 13 01	Slide lever, EJECT	1
105		238 03 12	Spring, Slide lever EJECT	1
106		542 13 01	Bracket, Slide lever EJECT	1
109		668 14 81	Plunger	1
110		668 14 82	D. C. solenoid	1
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112		02 07 08	Spring, Auto lever	1
115		408 15 81	Slide lever assembly	1
116		408 15 10	Spring, Slide lever assembly	1
117		408 15 03	Arm lever	1
118		238 13 04	Spacer, Arm lever	1
121		630 14 01	Short switch	1
122		1065 20 01	Switch, Muting	1
123		998 20 01	Bracket, Switch muting	1
124		973 14 01	Switch, Pause	2
125			Plate, Button select	1
127		542 18 81	Slide lever assembly, Pause	1
128		542 18 01	Lever, Pause	1
129		542 18 03	Spring, Lever pause	1
131			Screw, Bind Hd., M2.6x6	3
132			Screw, Pan Hd., M2x3	2
133			Screw, Pan Hd., M2x5	
134			Screw, Pan Hd., M2x11	1
135			Screw, Pan Hd. with Washer, M3x5	2
136			Screw, Pan Hd. with Washer, M2.6x5	4
137			Screw, Pan Hd. with Washer, M2.6x6	1
139			Screw, Pan Hd. with Washer, M2.6x8	3
140			Screw, Pan Hd., M2.6x8	2
141			Screw, Pan Hd., M2x12	2
142			Screw, Pan Hd. C-tight, M2.6x4	3
143			Washer, Plane, 2.3x6x0.4t	
144		03 13 07	Cord clamper	1
147		R-S57108	Motor	1
148		R-S07236	REC/PLAY head	1
149		R-S07218	Erase head	1
150		1065 16 91	Counter	1
151		297 13 01	Belt, Counter	1
152			Screw, Pan Hd. with Washer, M3x4 Counter	2
153		R-A72416	Case assembly, Cassette	1
		R-3971466	Case	(1)
		R-4771987	Label	(1)
154		R-157800	Plate spring, Cassette push out	1
155			Screw, Pan Hd., M2x6	1
156			Washer, Spring, 2	1
157			Nut, Hex Hd., 2	1
158		R-157799	Spring, Cassette case	1
159		R-S871167	Metal bracket, Mechanism left	1
160			Screw, Oval Hd. tap. M3x6	3
161		R-1170998	Lever, REC	1
162		R-147046	Special screw, Lever REC	2
163		R-157801	Plate spring, Lever REC	1
164			Screw, Pan Hd. with Washer, M3x4	1
165		R-S871168	Metal bracket, Mechanism right	1
166			Screw, Oval Hd. tap. M3x6	3
167		R-1171000	Lever, EJECT	1
168		R-1171001	Lock lever	1
169		R-157334	Spacer	2
170			Screw, Pan Hd. with Washer, M3x10	1
171			Nut, Hex Hd., M3	1
172		R-157611	Spring, Lock lever	1
173		R-1171004	Metal bracket, Counter	1
174			Screw, Pan Hd. Tap. Tight, M2.6x4	2
175		R-3971470	Knob	7

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
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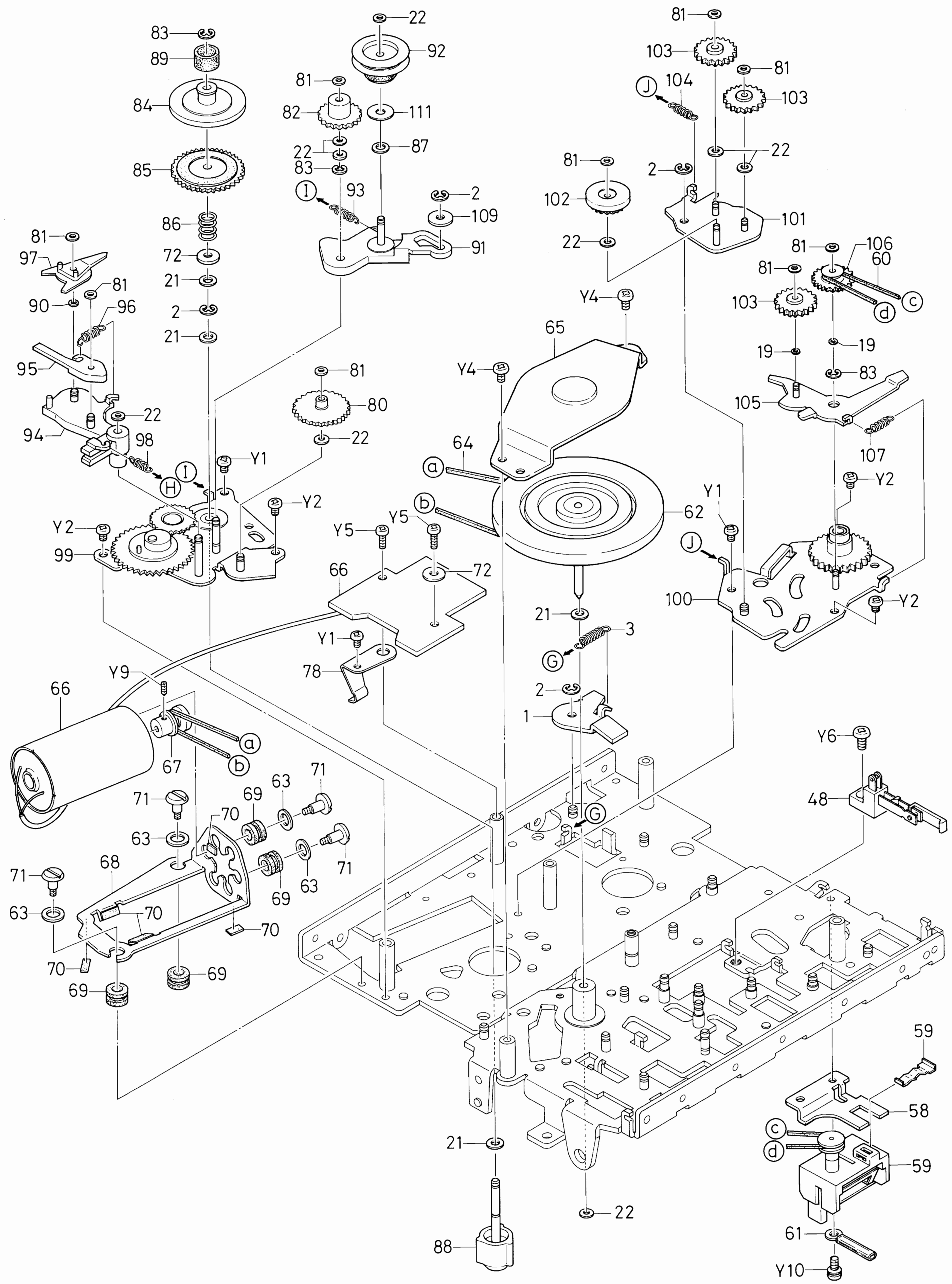
MECHANISM EXPLODED VIEW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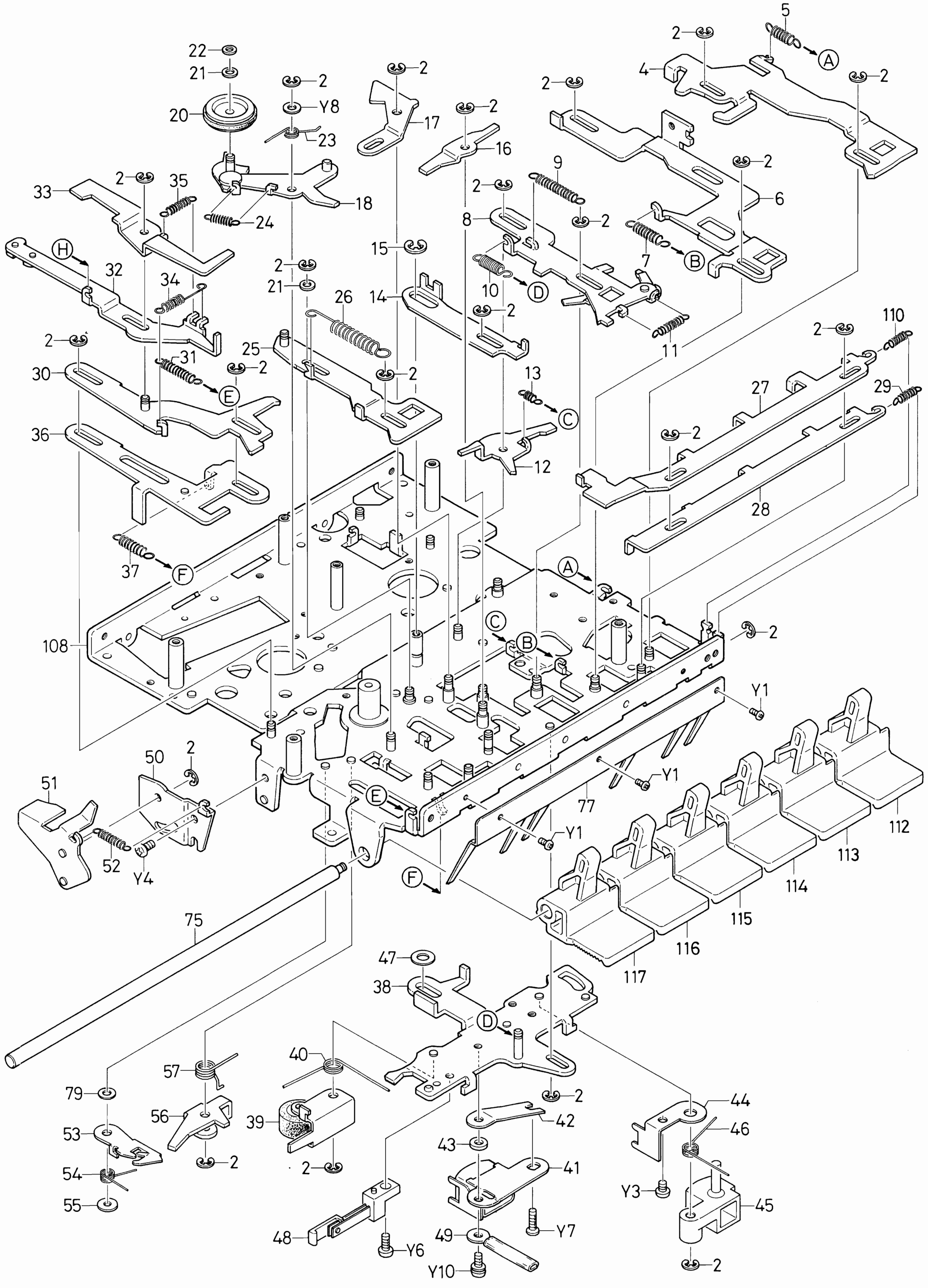
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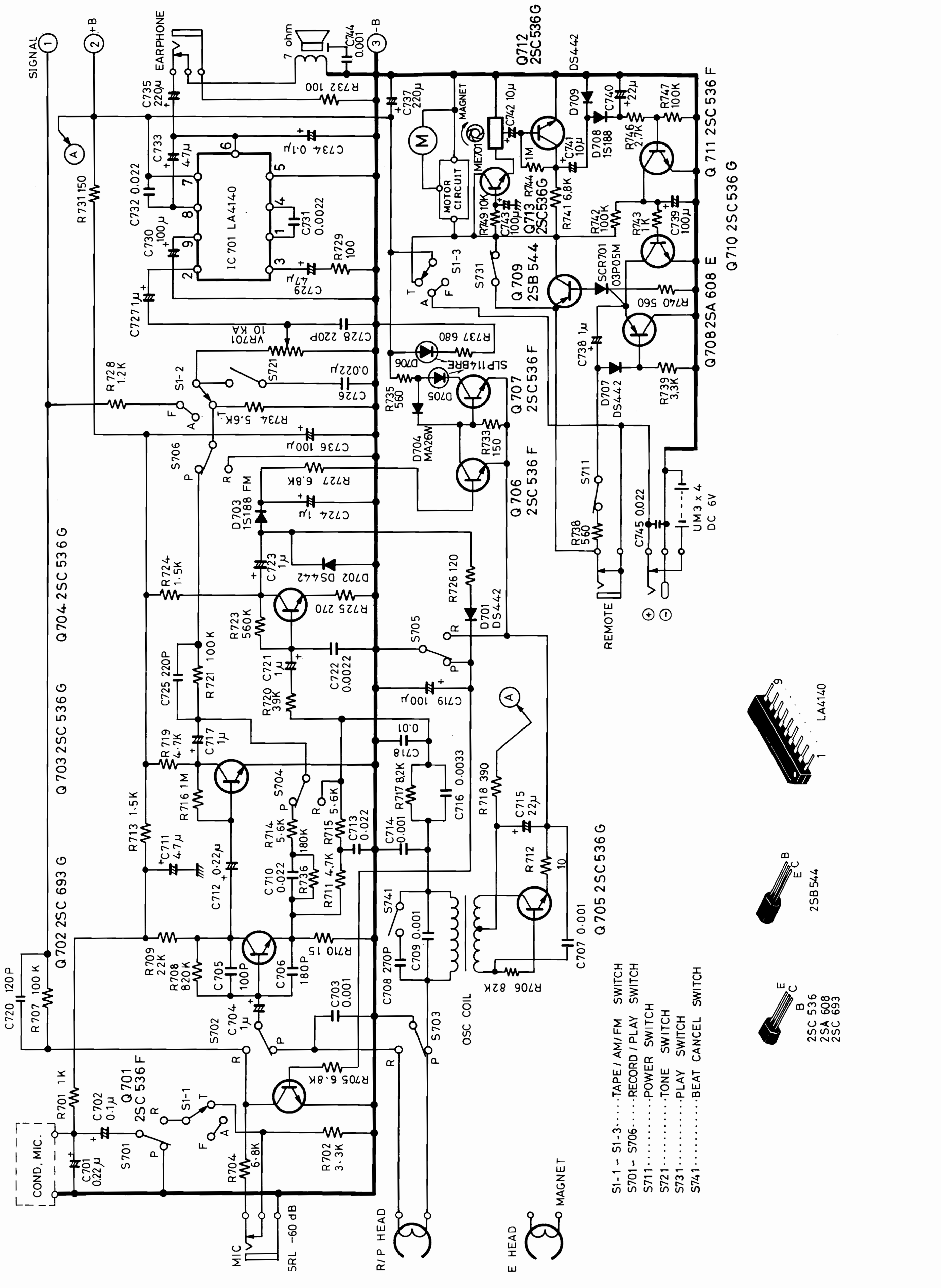
SCHEMATIC DIAGRAM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Q701 2SC536 F
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MOTOR CIRCUIT
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VR701 10 KA
REMOTE
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MIC
SRL −60 dB
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OSC COIL
S1-1 – S1-3.....TAPE/AM/FM SWITCH
S701 – S706.....RECORD/PLAY SWITCH
S711..........POWER SWITCH
S721..........TONE SWITCH
S731..........PLAY SWITCH
S741..........BEAT CANCEL SWITCH
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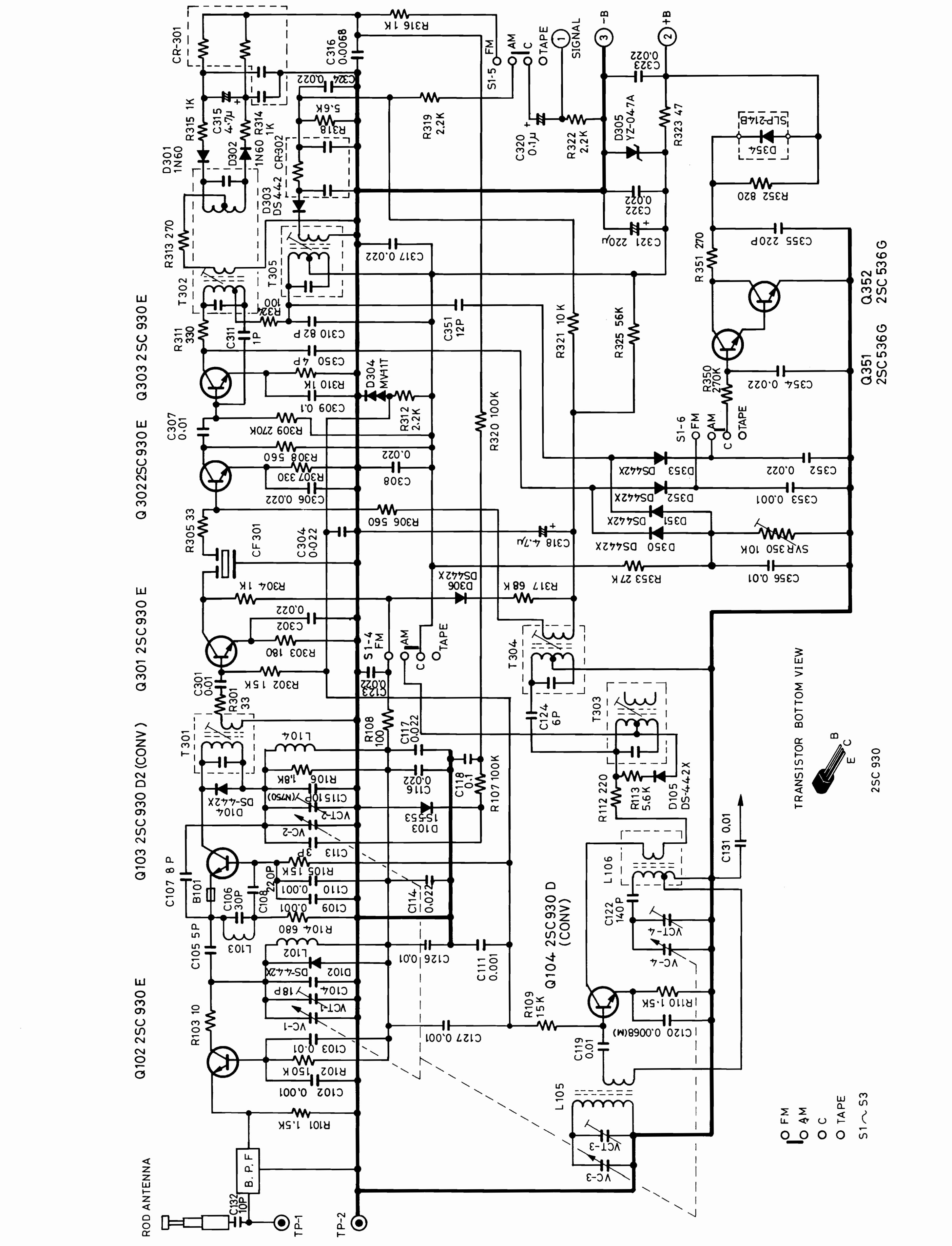
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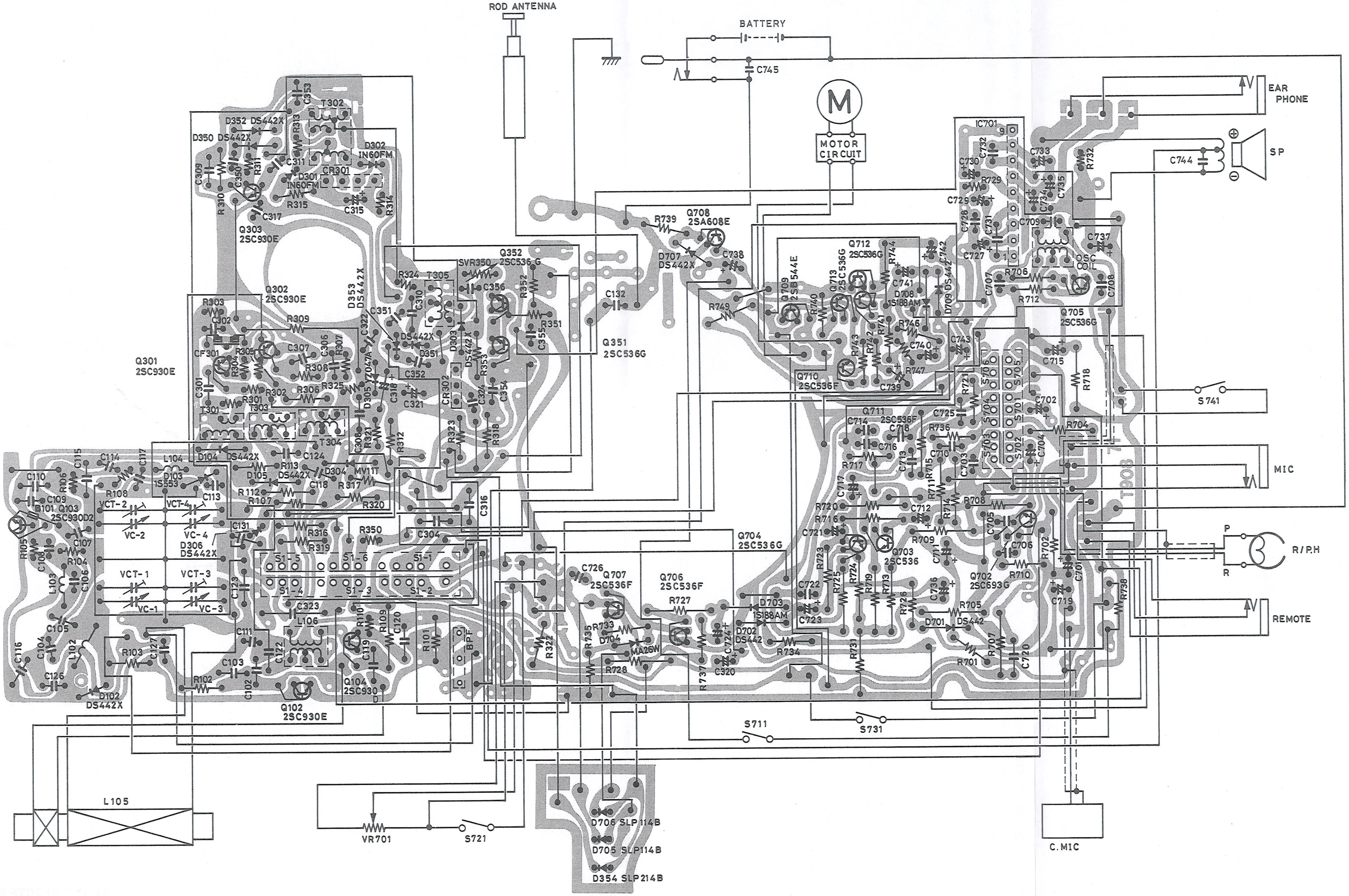
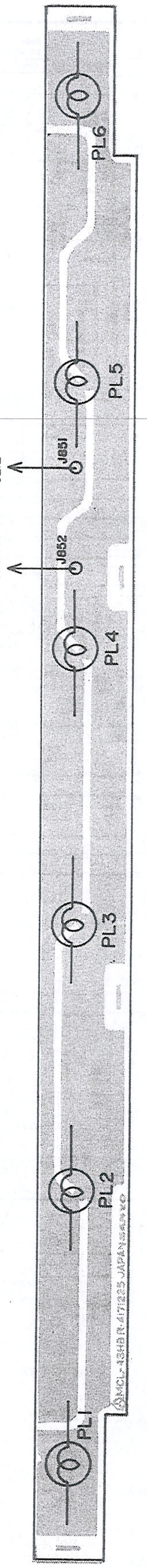
②+B
TRANSISTOR BOTTOM VIEW
2SC930
FM
AM
C
TAPE
S1~S3

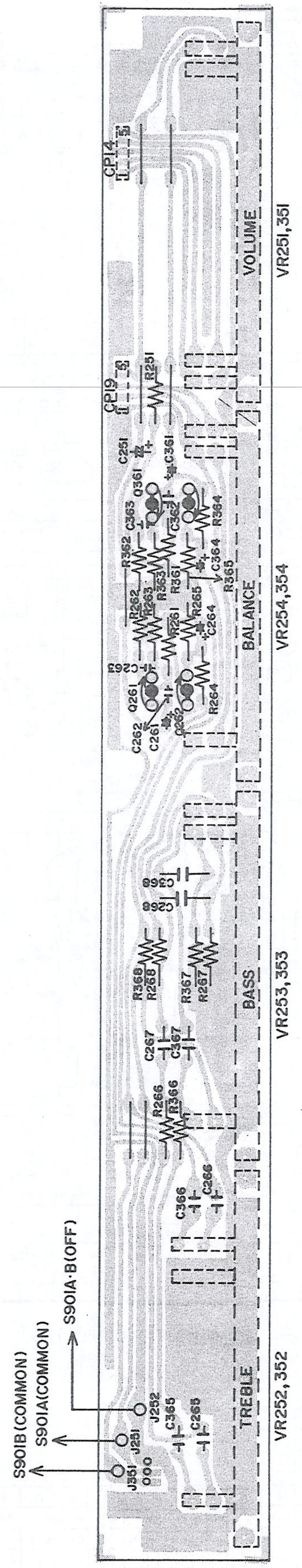

ROD ANTENNA
BATTERY
C745
M
MOTOR CIRCUIT
EAR PHONE
SP
C744
IC701
C732
C733
C730
R729
C729
R732
C735
C734
C728
C731
C727
C709
C737
OSC COIL
R706
R712
C701
C708
Q705 2SC536G
R739
Q708 2SA608E
D707 DS442X
C738
R749
Q709 2SB544E
Q713 2SC536G
Q712 2SC536G
R744
C742
C741
D708 1S188AM
D709 DS442
R740
R746
R743
R741
C740
C743
R747
C739
Q710 2SC536F
C715
R718
S741
S706
S705
S701
S704
S703
S702
C702
R721
C725
Q711 2SC536F
C714
C718
R736
C716
C713
R715
C710
C703
R704
C704
MIC
R717
R711
C717
R708
R720
C712
R714
R716
C721
C705
R709
C706
R702
Q703 2SC536
C711
C707
R710
Q702 2SC693G
R723
R724
R725
R719
R713
C722
C723
C736
R726
R705
D701 DS442
R707
R701
C720
C719
R738
R/P.H
P
R
REMOTE
T908
Q704 2SC536G
C726
Q707 2SC536F
Q706 2SC536F
R727
D703 1S188AM
D702 DS442
C724
R735
R733
D704 MA26W
R728
R734
R737
C320
R731
R322
S711
S731
D706 SLP114B
D705 SLP114B
D354 SLP214B
VR701
S721
C.MIC
L105
T302
C353
D352 DS442X
R313
D350 DS442X
C309
R311
C350
C311
D302 IN60FM
D301 IN60FM
CR301
R310
R315
C315
R314
C317
Q303 2SC930E
Q352 2SC536G
SVR350
R324
T305
C356
R352
D353 DS442X
C310
C351
C322
DS442X
D303
D351
C352
R351
C132
C355
Q351 2SC536G
Q302 2SC930E
R303
C302
R309
CF301
R305
C307
C306
R307
R304
R308
R325
C318
C321
CR302
R353
C324
C354
Q301 2SC930E
C301
R301
R302
R306
T301
T303
T304
D305
R323
R318
C308
R321
R312
C115
C114
C117
L104
D104 DS442X
C124
C110
R106
D103 1S553
D105 DS442X
R113
D304
MV11T
C109
C113
R112
C118
R317
R101
Q103 2SC930D2
R108
R107
R320
VCT-2
VCT-4
VC-2
VC-4
C131
R316
R350
C304
C316
R105
C108
C107
R104
D306 DS442X
R319
S1-5
S1-6
S1-1
L103
C106
VCT-1
VCT-3
VC-1
VC-3
C123
S1-4
S1-3
S1-2
C323
L106
C105
C111
R110
R109
C120
R101
BPF
C116
C104
L102
R103
C127
C122
C119
C126
D102 DS442X
R102
C103
C102
Q104 2SC930 D
Q102 2SC930E

WIRING DIAGRAM

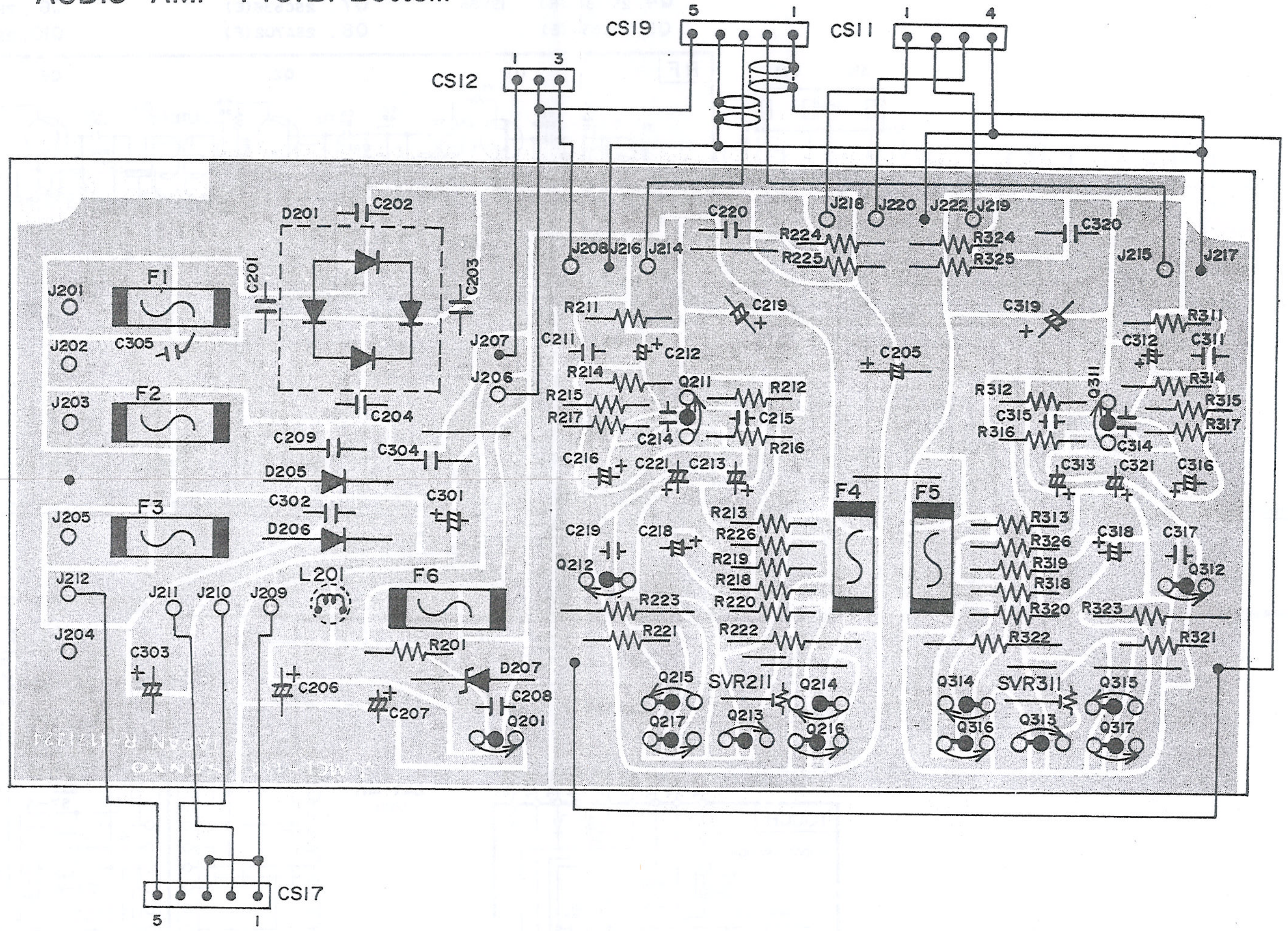
LAMP P.C.B. Bottom


PL1
PL2
PL3
PL4
PL5
PL6
J851
J852
J212
J204

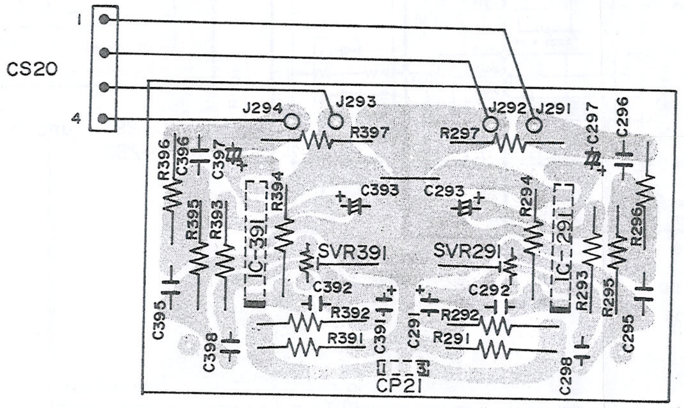
TONE CONTROL P.C.B. Bottom


S901B(COMMON)
S901A(COMMON)
S901A·B(OFF)
J351
J251
J252
CP14
CP19
VOLUME
VR251,351
BALANCE
VR254,354
BASS
VR253,353
TREBLE
VR252,352
Q261
Q361
R251
R264
R266
R366
R267
R367
R268
R368
C266
C366
C265
C365
C267
C367
C268
C368

AUDIO AMP P.C.B. Bottom


CS19
CS11
CS12
CS17
F1
F2
F3
F4
F5
F6
D201
D205
D206
D207
L201
J201
J202
J203
J204
J205
J206
J207
J208
J209
J210
J211
J212
J214
J215
J216
J217
J218
J219
J220
J222
SVR211
SVR311
Q201
Q211
Q212
Q213
Q214
Q215
Q216
Q217
Q311
Q312
Q313
Q314
Q315
Q316
Q317
C201
C202
C203
C204
C205
C206
C207
C208
C209
C220
C320
R201
R224
R225
R324
R325

PHONO EQUALIZER P.C.B. Bottom


CS20
1
4
J291
J292
J293
J294
SVR391
SVR291
IC391
IC291
CP21
R291
R292
R297
R391
R392
R397
C291
C292
C293
C391
C392
C393

SCHEMATIC DIAGRAM

Q1. JF.1033
Q4. 2SC1318(R)
Q5. 2SC536(E)

D1, 2, 3
1SV55

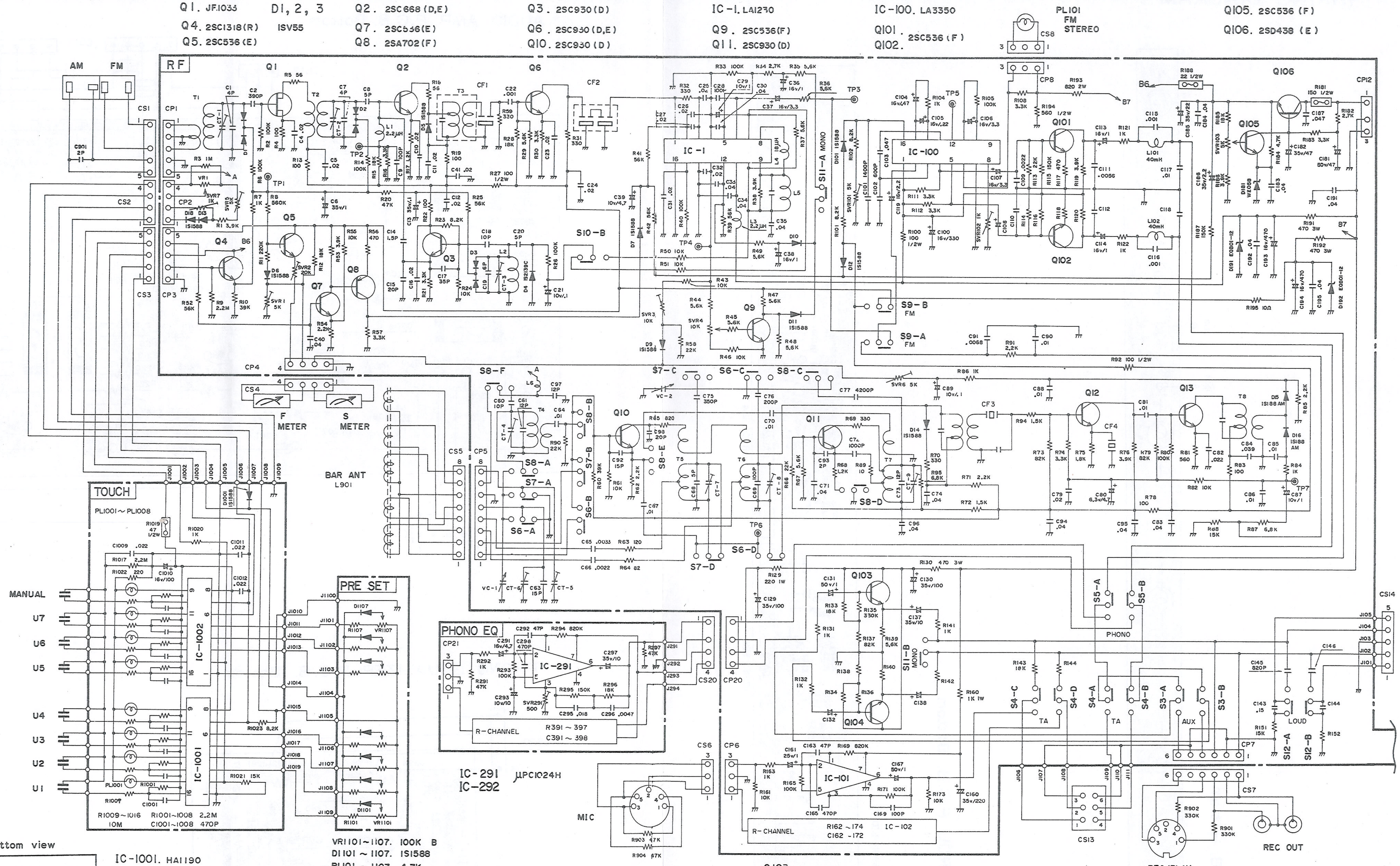
Q2. 2SC668(D,E)
Q7. 2SC536(E)
Q8. 2SA702(F)

Q3. 2SC930(D)
Q6. 2SC930(D,E)
Q10. 2SC930(D)

IC-1. LA1230
Q9. 2SC536(F)
Q11. 2SC930(D)

IC-100. LA3350
Q101. Q102. 2SC536(F)

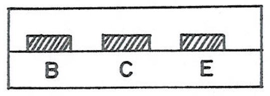
Q105. 2SC536(F)
Q106. 2SD438(E)


PL101
FM
STEREO
CS8
AM
FM
RF
TOUCH
PL1001 ~ PL1008
MANUAL
U7
U6
U5
U4
U3
U2
U1
IC-1002
IC-1001
R1009~1016
10M
R1001~1008 2.2M
C1001~1008 470P
PRE SET
PHONO EQ
IC-291
R-CHANNEL
R391 ~ 397
C391 ~ 398
F METER
S METER
BAR ANT
L901
MIC
IC-101
R-CHANNEL
R162 ~ 174
C162 ~ 172
IC-102
PHONO
AUX
TA
LOUD
REC/PLAY
REC OUT
CS13
IC-1
IC-100

IC-291
IC-292 µPC1024H

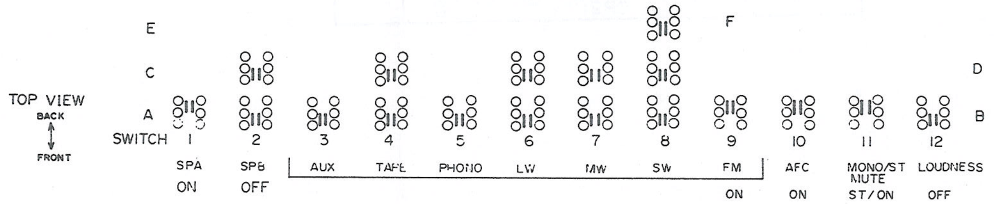
VR1101~1107. 100K B
D1101 ~ 1107. 1S1588
R1101 ~ 1107. 4.7K

Bottom view



2SD313

IC-1001. HA1190
IC-1002. HA1194


E
C
A
F
D
B
TOP VIEW
BACK
FRONT
SWITCH
1
2
3
4
5
6
7
8
9
10
11
12
SPA
ON
SPB
OFF
AUX
TAPE
PHONO
LW
MW
SW
FM
ON
AFC
ON
MONO/ST
MUTE
ST/ON
LOUDNESS
OFF

Q103.
Q104. 2SC1740LN(S)

IC-101. µPC1023H
IC-102

Q12.
Q13. 2SC930D

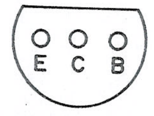
	1	2	3	4	5	6	7
IC-291	1.8	0.5	.006	.000	0.53	7.7	25.8
IC-101	1.93	0.56	.007	.000	0.57	6.9	27.0

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC-1001 1002	0.0	3.10	3.45	3.45	3.45	31.1	31.2	11.3	10.37	10.55	4.74	8.93	4.74	8.93	4.74	8.93
IC-1	2.81	2.81	2.81	0.00	0.00	5.76	5.65	5.75	5.75	5.75	12.28	5.00	0.00	0.00	5.13	0.00
IC-100	10.48	2.94	5.43	7.44	7.51	13.90	0.00	.326	6.36	2.11	2.11	2.41	2.11	2.11	2.11	2.81

NOTES

1. ALL RESISTANCES ARE 1/4W UNLESS NOTED OTHERWISE VALUES ARE IN OHMS ($K=10^3$, $M=10^6$)
2. ALL CAPACITOR VALUES ARE IN µF ($p=10^{-6}\mu F$)
3. VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M. UNDER NO SIGNAL
4. THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY

Bottom view

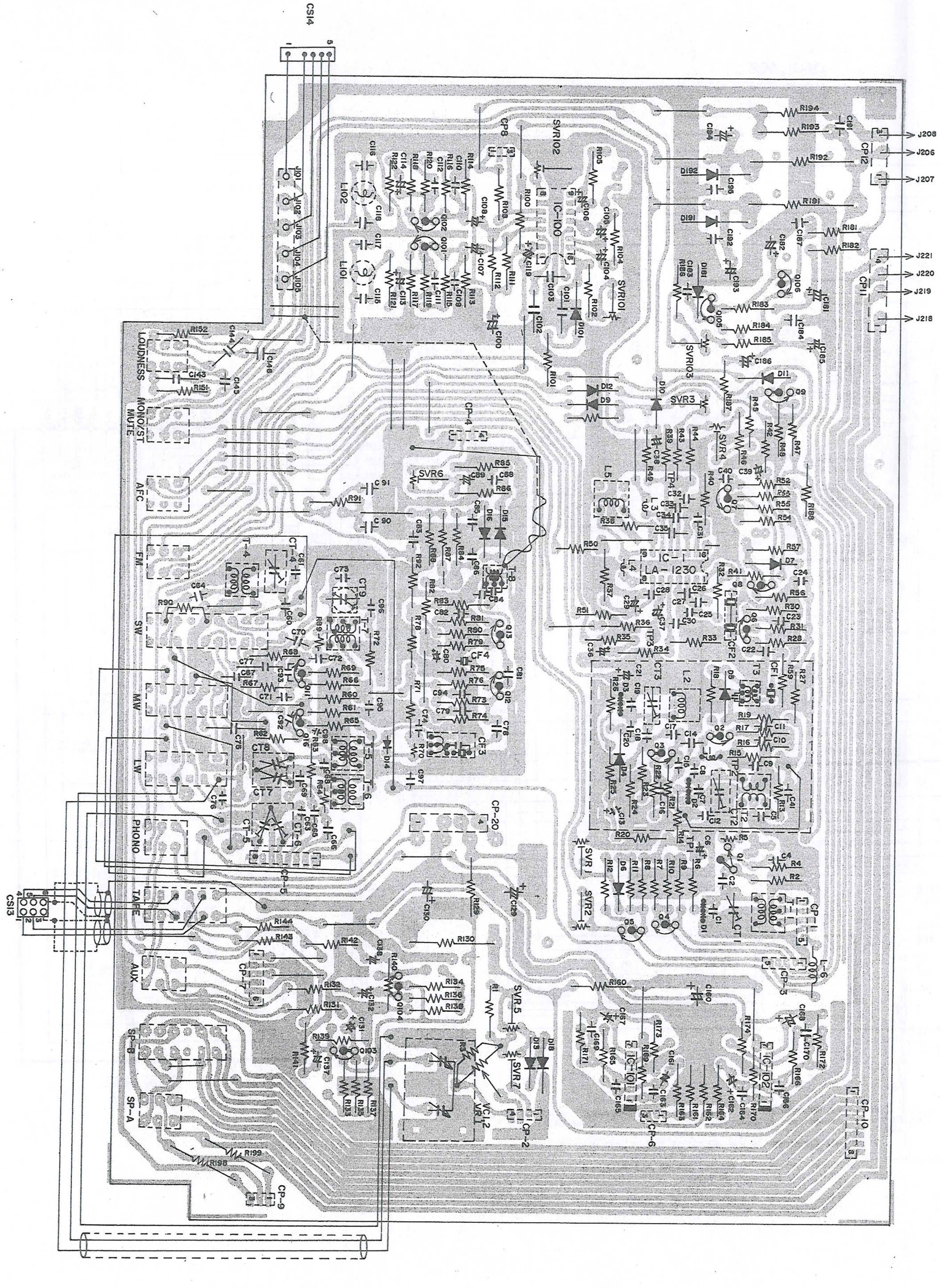


2SA702
2SC1740
2SD438
2SB560
2SC1318

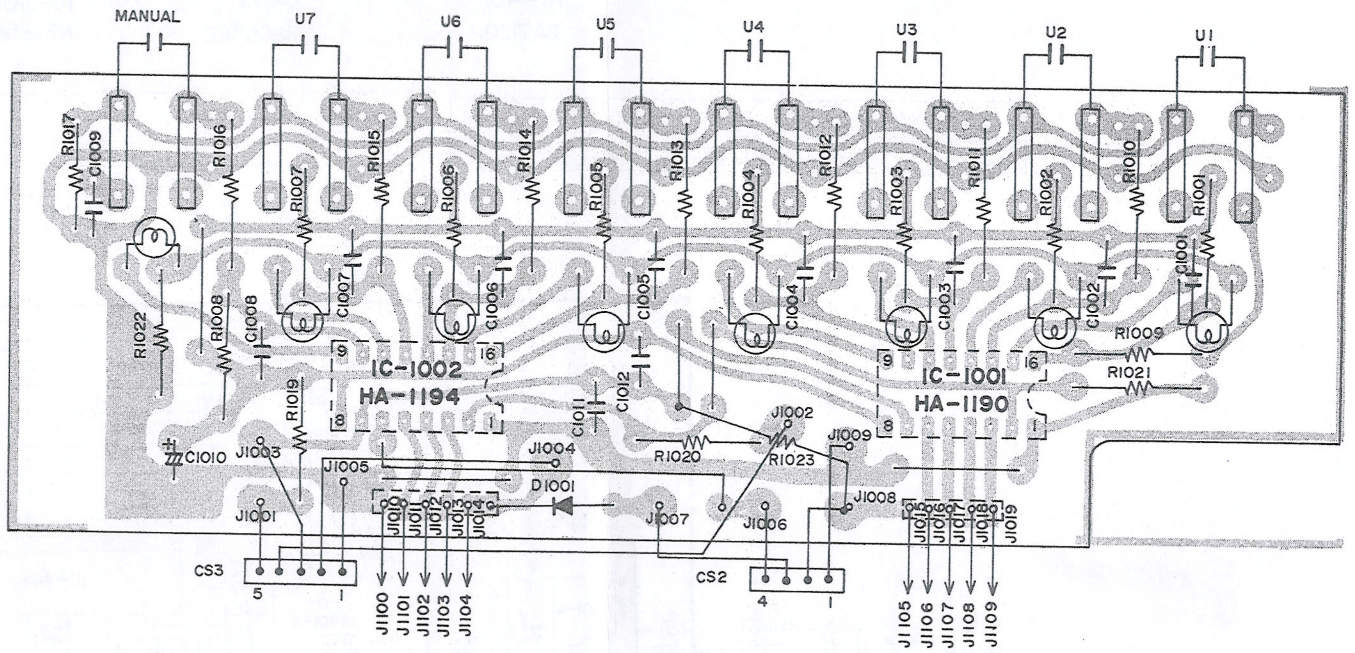
2SC930
2SC668
2SC536
2SC1317

WIRING DIAGRAM

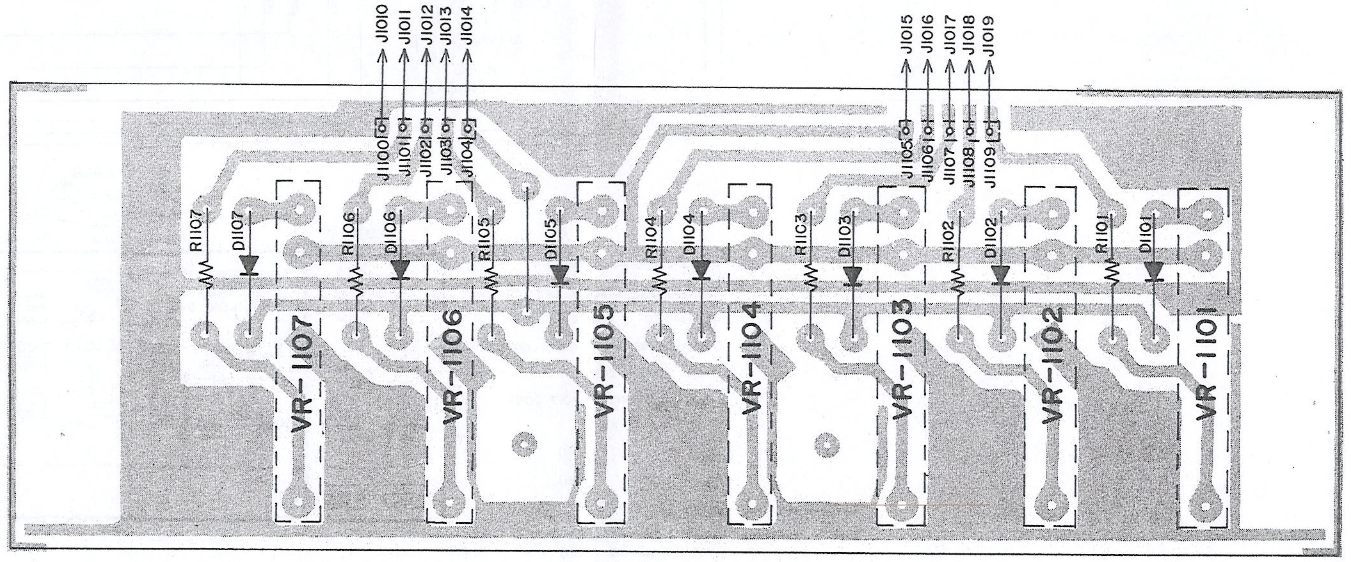
TUNER P.C.B. Bottom


CS14
J208
J206
J207
J221
J220
J219
J218
IC-100
LA-1230
LOUDNESS
MONO/ST MUTE
AFC
FM
SW
MW
LW
PHONO
TAPE
AUX
SP-B
SP-A
CS13
CP-20
CP-9
CP-10

TOUCH P.C.B. Bottom

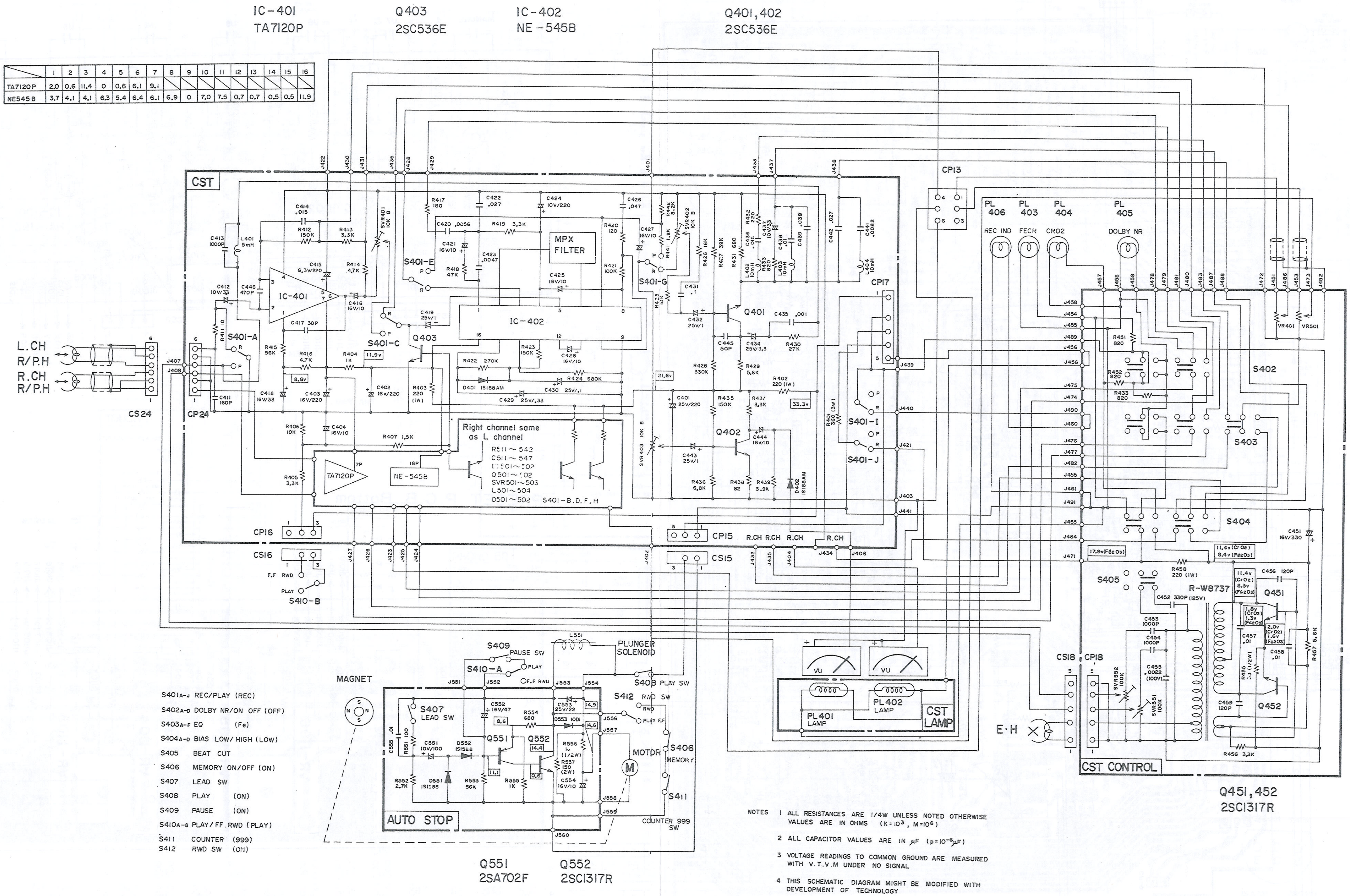

MANUAL
U7
U6
U5
U4
U3
U2
U1
IC-1002
HA-1194
IC-1001
HA-1190
CS3
CS2
J1100
J1101
J1102
J1103
J1104
J1105
J1106
J1107
J1108
J1109

PRESET P.C.B. Bottom


J1010
J1011
J1012
J1013
J1014
J1015
J1016
J1017
J1018
J1019
VR-1107
VR-1106
VR-1105
VR-1104
VR-1103
VR-1102
VR-1101

SCHEMATIC DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
TA7120P	2.0	0.6	11.4	0	0.6	6.1	9.1									
NE545B	3.7	4.1	4.1	6.3	5.4	6.4	6.1	6.9	0	7.0	7.5	0.7	0.7	0.5	0.5	11.9


IC-401
TA7120P
Q403
2SC536E
IC-402
NE-545B
Q401,402
2SC536E
CST
CP13
PL 406
REC IND
PL 403
FECR
PL 404
CRO2
PL 405
DOLBY NR
MPX FILTER
S401-E
S401-G
S401-A
S401-C
S401-I
S401-J
CP17
S402
S403
S404
S405
R-W8737
Q451
Q452
VR401
VR501
L.CH
R/P.H
R.CH
R/P.H
CS24
CP24
Right channel same
as L channel
R511 ~ 542
C511 ~ 547
IC501 ~ 502
Q501 ~ 502
SVR501 ~ 503
L501 ~ 504
D501 ~ 502
S401-B.D.F.H
TA7120P
NE-545B
CP16
CS16
F.F RWD
PLAY
S410-B
CP15
CS15
R.CH
S409
PAUSE SW
S410-A
PLAY
F.F RWD
PLUNGER
SOLENOID
S408 PLAY SW
S412 RWD SW
MAGNET
S407
LEAD SW
Q551
Q552
MOTOR
S406
MEMORY
S411
COUNTER 999
SW
AUTO STOP
VU
VU
PL401
LAMP
PL402
LAMP
CST
LAMP
E·H
CS18
CP18
CST CONTROL

Q451,452
2SC1317R

Q551
2SA702F

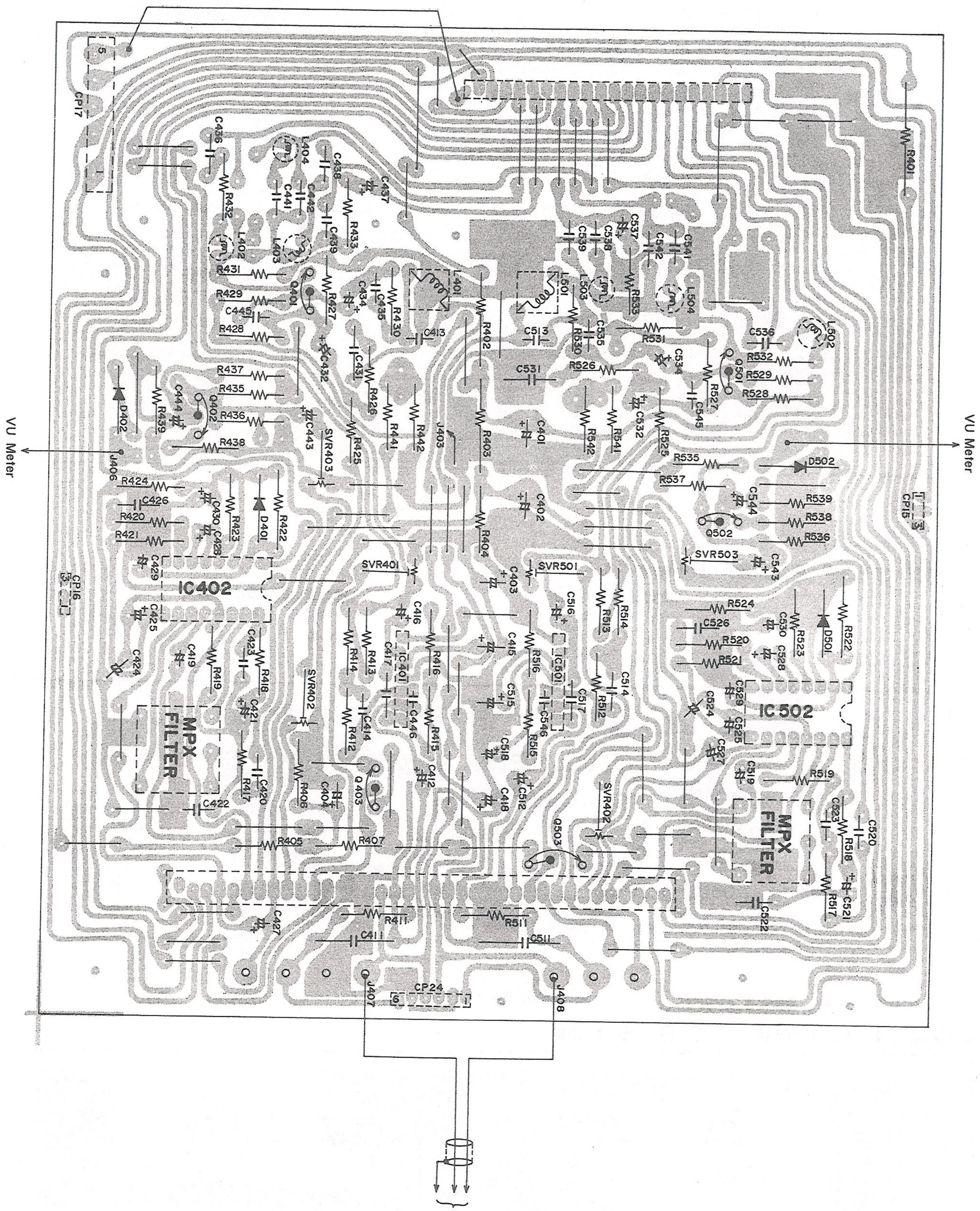
Q552
2SC1317R

S401A-J REC/PLAY (REC)
S402A-D DOLBY NR/ON OFF (OFF)
S403A-F EQ (Fe)
S404A-D BIAS LOW/HIGH (LOW)
S405 BEAT CUT
S406 MEMORY ON/OFF (ON)
S407 LEAD SW
S408 PLAY (ON)
S409 PAUSE (ON)
S410A-B PLAY/FF.RWD (PLAY)
S411 COUNTER (999)
S412 RWD SW (ON)

NOTES
1 ALL RESISTANCES ARE 1/4W UNLESS NOTED OTHERWISE VALUES ARE IN OHMS ($K=10^3$, $M=10^6$)
2 ALL CAPACITOR VALUES ARE IN μF ($p=10^{-6}\mu F$)
3 VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M UNDER NO SIGNAL
4 THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY

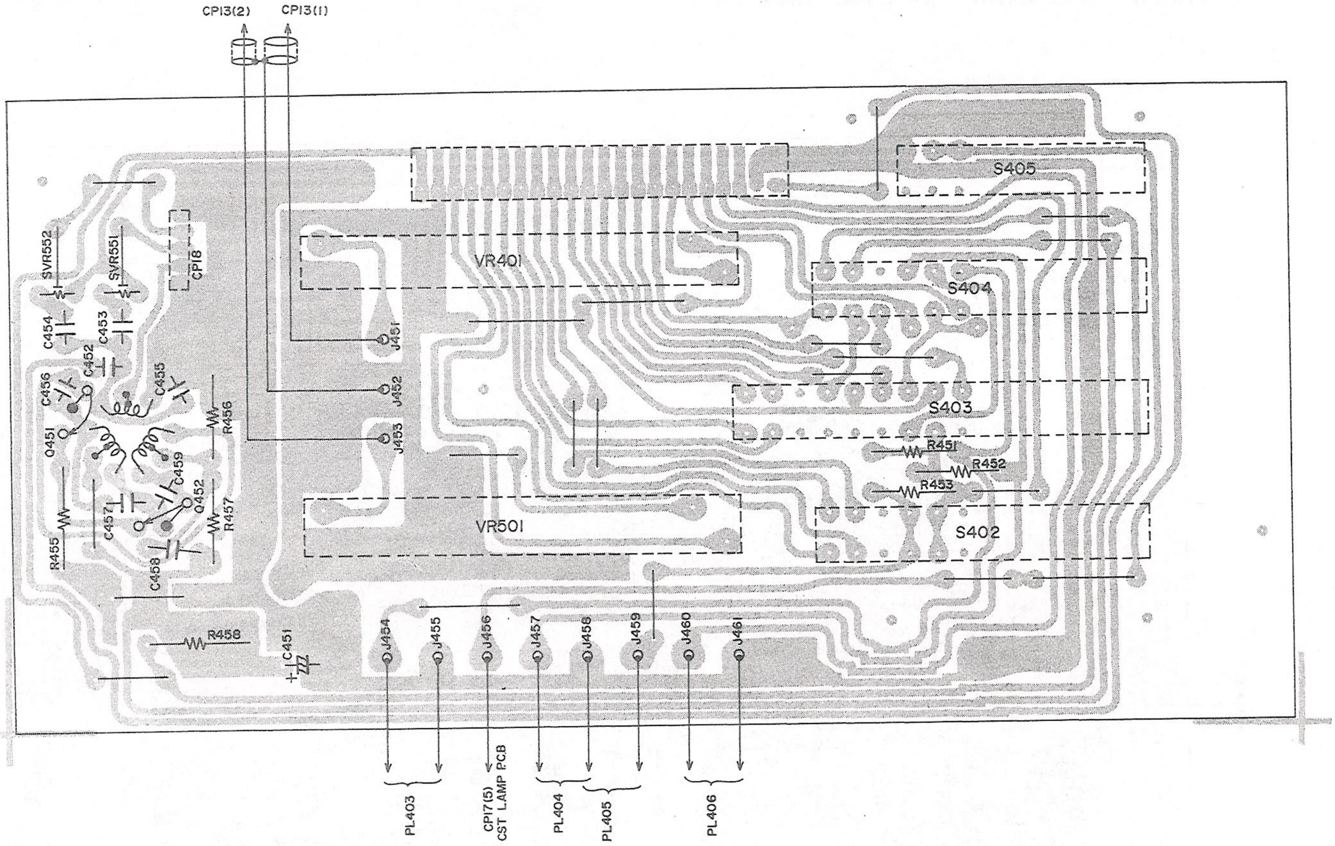
WIRING DIAGRAM

CASSETTE AMP. P.C.B. Bottom

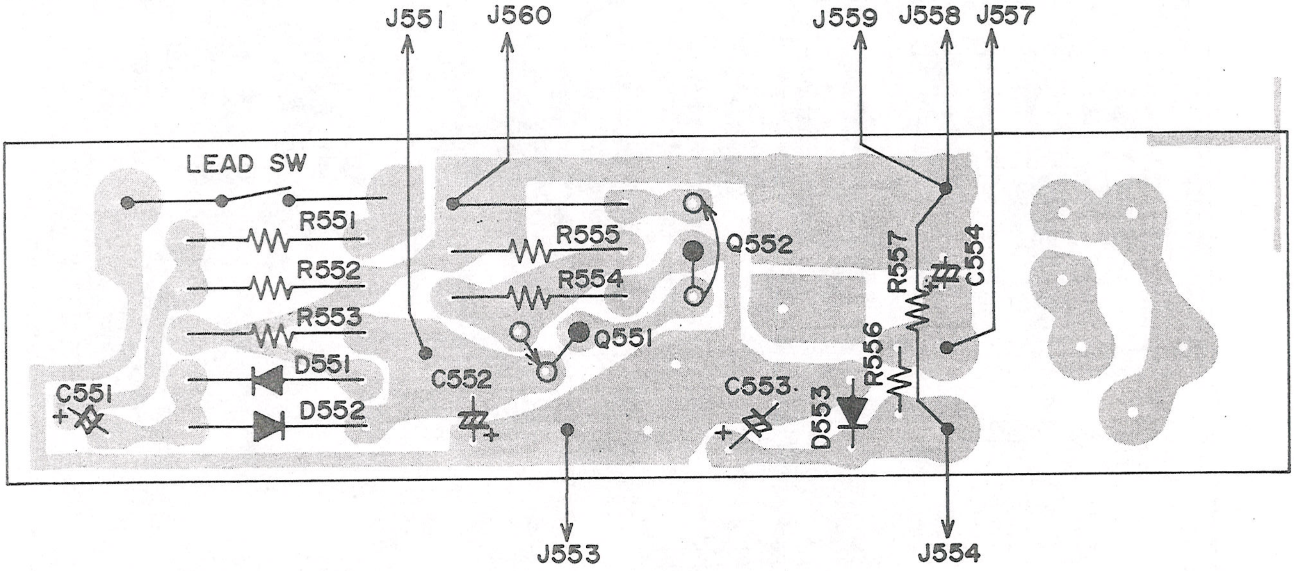

CP17
5
C436
L404
C438
C437
R432
C441
C442
R433
L402
L403
C439
R431
Q401
R427
C434
C435
R430
L401
R429
C445
R428
C413
C432
C431
R437
R435
R426
C444
Q402
R436
R439
D402
C443
SVR403
R425
R441
R442
J403
R438
J406
VU Meter
R424
C426
C430
R423
D401
R422
R420
C428
R421
C429
IC402
CP16
3
C425
C424
C419
R419
C423
R418
C421
MPX FILTER
R417
C420
C422
R405
R407
R406
C404
Q403
SVR402
C414
R412
R414
R413
C416
C417
IC401
R416
C446
R415
C412
SVR401
R402
R403
R404
C401
C402
C403
SVR501
C415
R516
IC501
C516
C515
C546
C518
C512
C418
C517
R515
R513
R514
R512
C514
SVR402
Q503
R411
R511
C427
C411
C511
J407
J408
CP24
6
CS18
C539
C538
C537
C542
C541
L501
L503
R533
L504
R530
C535
C513
R531
C531
R526
C534
C536
L502
R532
R529
Q501
R527
R528
C545
R542
R541
C532
R525
R535
D502
VU Meter
R537
C544
R539
R538
Q502
R536
CP15
3
SVR503
C543
R524
C526
C530
R523
D501
R522
R520
R521
C528
C529
C524
IC502
C525
C527
C519
R519
MPX FILTER
C523
R518
C520
R517
C521
C522
R401

WIRING DIAGRAM

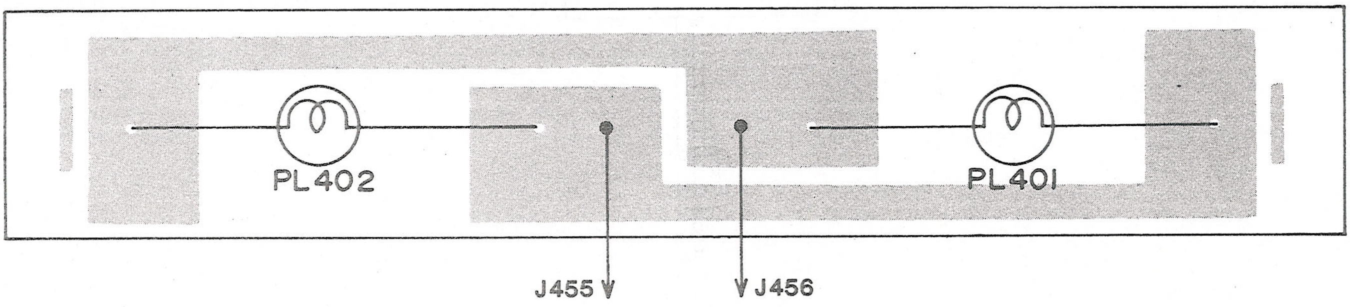
CASSETTE SWITCH P.C.B. Bottom


CP13(2)
CP13(1)
S405
VR401
S404
S403
R451
R452
R453
S402
VR501
SVR552
SVR551
CP18
C454
C453
C452
C456
C455
Q451
R456
C459
Q452
C457
R457
R455
C458
R458
C451
J451
J452
J453
J454
J455
J456
J457
J458
J459
J460
J461
PL403
CP17(5)
CST LAMP PCB
PL404
PL405
PL406

AUTO STOP P.C.B. Bottom


J551
J560
J559
J558
J557
LEAD SW
R551
R552
R553
D551
D552
C551
R555
R554
Q552
Q551
C552
R557
C554
R556
C553
D553
J553
J554

CASSETTE LAMP P.C.B. Bottom


PL402
PL401
J455
J456